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Annual Reports ...

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LEO A. CARO,

City Comptroller,

Grand Rapids, Mich.

REPORTS OF OFFICERS
OF THE
CITY OF GRAND RAPIDS
75183
MICHIGAN

For the Year Ending April 30, 1900

PUBLISHED BY AUTHORITY OF THE COMMON COUNCIL.

Compiled by LEO A. CARO, City Comptroller.



1900
WEST MICHIGAN PRINTING CO.
GRAND RAPIDS, MICH.

CITY OFFICERS—1899-1900.

EXECUTIVE DEPARTMENT.

	TERM EXPIRES
Mayor.....	GEO. R. PERRY.....1900
Mayor's Secretary	F. W. HUNTER.....1900
City Clerk.....	ISAAC F. LAMOREAUX ..1901
Deputy Clerk	FREEMAN S. MILMINE..1901
License Clerk.....	RUDOLPH DOORNINK ....1901
Engrossing Clerk.....	BESSIE A. POWERS ....1901
General Clerk.....	MICHAEL COLLETON....1901

LEGAL DEPARTMENT.

City Attorney	LANT K. SALSBUURY ....1901
Assistant City Attorney	FRANK W. HINE.....1901
Clerk	ERNEST L. BULLEN ....1901
Clerk	ADOLPH WURZBURG ....1900

AUDITING DEPARTMENT.

Comptroller.....	LEO A. CARO	1901
Bookkeeper	CLARA W. ARMSTRONG.	1901
Assistant Bookkeeper...	ANNA SCHROUDER	1901
Second Assistant.....	MAY KONKLE.....	1900
Tax Claim Clerk.....	EDWARD F. STACE	1901

TREASURY DEPARTMENT.

Treasurer	MARCUS A. FROST.....	1901
Assistant Treasurer....	OSCAR E. KILSTROM....	1901
Bookkeeper	EDWARD DOOGUE	1901
Clerk	ERNEST F. HUBBARD...	1901

CITY OFFICERS,

BOARD OF POOR COMMISSIONERS.

TERM EXPIRES

Member	HERMAN H. IDEMA	1901
Member	ALBERT J. KILLEAN	1900
Member	F. W. N. HUGENHOLTZ*	1900
Clerk	LEONARD DE PAGTER	1900
Clerk	JOHN KREMERS	1900
Secretary	MINA ANDERSON	1900

*Died.

CITY MARSHAL DEPARTMENT.

City Marshal	THOMAS J. GLEASON	1901
Assistant City Marshal ..	STANLEY JACKOWSKI ..	1901
Bookkeeper	E. WIERENGA	1901
Special Clerk	HARRY STEWERT	1901

ENGINEERING DEPARTMENT.

City Engineer	GEORGE M. AMES
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MISCELLANEOUS.

Custodian of City Hall ..	CHAS. T. BRENNER
---------------------------	------------------------

COMMON COUNCIL.

(Regular meetings every Monday evening.)

OFFICERS.

Geo. R. Perry	Mayor
Clark E. Slocum	President
Isaac F. Lamoreaux	Clerk
Freeman S. Milmine	Deputy Clerk
Lant K. Salsbury	Attorney
Thomas J. Gleason	Marshal

BOARD OF ALDERMEN.

WARD	TERM EXPIRES
1—Edward Whalen, 69 Ellsworth Ave.....	1900
1—James O. McCool, 56 Ellsworth Ave... ..	1901
2—Peter DePagter, 597 E. Fulton St.....	1900
2—David Forbes, 34 Canal St.....	1901
3—John Muir, 59 Paris Ave.....	1900
3—Charles K. Seymour, 560 Cherry St.....	1901
4—John A. Muehling, 171 E. Bridge St.....	1900
4—Malachi Kinney, 2 Clancy St.....	1901
5—Josiah Tibbetts, 82 Marietta St.....	1900
5—Adrian Shriver, 29 Page St.....	1901
6—Corey P. Bissell, 601 Turner St.....	1900
6—Abraham Ghysels, 42 W. Leonard St.....	1901
7—Charles H. Phillips, 321 First St.....	1900
7—Charles T. Johnson, 177 Third St.....	1901
8—Thomas Doran, 90 Summer St.....	1900
8—Frank S. Damskey, Western Hotel.....	1901
9—Joseph C. Shinkman, 293 Gold St.....	1900
9—Joseph Renihan, Tower Block.....	1901
10—William H. Stewart, 354 Bates St.....	1900
10—Harry C. White, 29 Huron St.....	1901
11—Frank E. Hodges, 617 Madison Ave.....	1900
11—Daniel E. Lozier, 699 Madison Ave.....	1901
12—Clark E. Slocum, 280 Ninth Ave.....	1900
12—John McLachlan, 26 Chicago Ave.....	1901

STANDING COMMITTEES.

1. Ways and Means—Doran, Slocum, Bissell.
2. Claims and Accounts—Forbes, Shinkman, Seymour.
3. Streets—Hodges, Muir, Bissell, Shriver, Renihan, DePagter.
- 4—Buildings—Slocum, Muehling, McCool.
5. Sewers—Johnson, McLachlan, DePagter.

6. Poor—Lozier, Ghysels, Damskey.
7. Lighting—Whalen, Johnson, Shriver.
8. Parks—Phillips, Shinkman, McLachlan.
9. Ordinances—Stewart, Kinney, Forbes.
10. Health—White, Renihan, Damskey.
11. Bridges—Bissell, Doran, Hodges.
12. Fire Department—Damskey, Whalen, Ghysels.
13. Sidewalks—Kinney, Lozier, Shriver.
14. Licenses—Tibbetts, Kinney, Johnson.
15. Charter Amendments—Shinkman, Forbes, Bissell, Slocum, Phillips.
16. Market — McCool, Shinkman, Tibbetts, Muir, Whalen.
17. Supplies—Seymour, Lozier, Ghysels.
18. Water Supply—Muir, Hodges, Renihan.
19. Sale of Franchises—Muehling, Stewart, White.

Mayor's office hours from 11 A. M. to 12:30 P. M.

Offices in City Hall open from 8 A. M. to 5 P. M.

Council meets every Monday evening at 7:30.

Committees meet every Thursday evening at 7:30
in the Council chamber.

Mayor's telephone, 300. City Clerk's, 152.

BOARD OF PUBLIC WORKS.

(Created by act of Legislature, March 22, 1873.)

Dudley E. Waters, President	.. Term expires May, 1901
Wm. T. Johnson	..... Term expires May, 1900
Otis N. Watson	..... Term expires May, 1900
Joseph Emmer	..... Term expires May, 1902
Orson A. Ball	..... Term expires May, 1902
Geo. R. Perry, Mayor	..... Member ex-officio
Fred A. Twamley	..... Secretary
John Van Amburg	..... Superintendent Water Works

E. A. Bates*	Engineer Pumping Station
John L. Shaw†	Engineer Water and Lighting Plants
Barney Myers	Engineer Water and Lighting Plants
A. Per Lee	Inspector
Charles B. Seeley	Collector
Alyce M. Twamley	Clerk
Wm. S. Van Amburg	Clerk
John C. Brown	Clerk

*Resigned. †Died.

BOARD OF POLICE AND FIRE COMMISSIONERS.

(Created by act of the Legislature, May 31, 1881.)

Wm. B. Weston, President	Term expires 1900
Stephen A. Sears	Term expires 1901
Lewis H. Withey	Term expires 1902
Charles A. Hauser	Term expires 1903
Wm. H. Boyns	Term expires 1904
B. F. McReynolds	Secretary
Harvey O. Carr, Supt. of Police	Appointed April, 1893
Henry Lemoin, Fire Marshal	Appointed July, 1873
H. C. Bettinghouse, Supt. Fire Alarm	App'd June, 1883
Stenographer	Lena Heintzman

BOARD OF HEALTH.

(Organized under Title VII. of the Charter.)

J. Orton Edie, President	Term expires 1900
W. A. Wilson, Secretary	Term expires 1900
Chas. W. Calkins	Term expires 1901
R. M. Luton, Health Officer	Term expires 1900
Malcom C. Sinclair	Term expires 1902
Geo. R. Perry, Mayor, member ex-officio.	
Clark E. Slocum, Pres. of Council, member ex-officio.	

CITY OFFICERS,

BOARD OF ASSESSORS.

(Organized under Title VIII. of the Charter.)

George G. Lamb, President Term expires May, 1900
 Fred B. Aldrich, Secretary Term expires May, 1901
 Fred Saunders Term expires May, 1902

BOARD OF CEMETERY COMMISSIONERS.

(Created by act of Legislature, May 18, 1883.)

H. G. Barlow Term expires 1900
 Frank E. Pulte Term expires 1901
 Frank W. Ball Term expires 1902

HIGHWAY COMMISSIONERS.

First District H. J. Brouwer
 Second District James Sherlock
 Third District Peter McIntosh

SUPERIOR COURT.

(Created by act of Legislature, March 24, 1875.)

Judge Richard L. Newnham
 Clerk Harry L. Cresswell
 Messenger Wm. H. Bonnell
 Court Officer Omar H. Provin
 Court Officer Rob't Devitt

POLICE COURT.

(Created by act of Legislature, May 13, 1879.)

Judge Emanuel J. Doyle
 Clerk Albert Carroll
 Bailiff John Toren

JUSTICE COURT.

(Created by act of Legislature, April, 1888.)

Justice Charles A. Watt.....Term expires July 4, 1903
 Justic Harry A. Cowan.....Term expires July 4, 1900
 Clerk of Justices Court—Ralph Anderson.....
Term expires May 1, 1901

BOARD OF EDUCATION.

(Created by act of Legislature, March 15, 1873.)

J. A. S. Verdier, President.
 Ed. H. Stein, Secretary.
 F. R. Hathaway, Superintendent of Schools.
 Therese Townsend, Asst. Superintendent of Schools.
 F. M. Davis, Treasurer.
 Lucy Ball, Librarian.
 George I. Davidson, Superintendent of Construction.
 E. H. Church, Supply Clerk.
 F. B. Fee, Truant Officer.

MEMBERS OF BOARD.

WARD.	NAME.	TERM EXPIRES
First	H. E. Locher.....	1900
“	Martin C. DeJager.....	1901
Second.....	Josephine A. Goss.....	1900
“	Edwin F. Sweet.....	1901
Third.....	L. E. Knappen.....	1900
“	Alde L. T. Blake.....	1901
Fourth	James A. Hunt.....	1900
“	J. A. S. Verdier.....	1901
Fifth.....	Benn M. Corwin.....	1900
“	Henry E. Leffingwell.....	1901
Sixth	J. H. Joldersma.....	1900
“	John A. McColl.....	1901

CITY OFFICERS,

WARD.	NAME.	TERM EXPIRES.
Seventh	Joseph Albright.....	1900
"	J. J. Blickley.....	1901
Eighth.....	M. F. Powers	1900
"	E. J. Crossman	1901
Ninth.....	James E. Blanford.....	1900
"	Madison J. Ulrich.....	1901
Tenth.....	John Rowson	1900
"	J. B. Hilliker	1901
Eleventh.	Francis B. Turner.....	1900
"	John A. Hoedemaker	1901
Twelfth	J. M. Wright.....	1900
"	Ed. H. Stein	1901

Hon. Geo. R. Perry, Mayor, member ex-officio.

(Regular meetings of the Board are held the first Saturday of each month.)

ELECTIVE OFFICES.

The following officers are elected at the Charter election:

	TERM
Mayor	Two years
Aldermen.....	Two years
Clerk.....	Two years
Treasurer	Two years
Comptroller.....	Two years
Marshal.....	Two years
Judge of the Superior Court.....	Six years
Clerk of the Superior Court.....	Two years
Judge of Police Court	Four years
Clerk of Police Court.....	Two years
Justices of the Peace	Four years
Clerk of the Justices Court	Two years
Constables.....	One year

APPOINTIVE OFFICES.

Private Secretary to the Mayor, appointed by the Mayor	
Members of the Board of Public Works are appointed by the Mayor	Three years
Members of the Board of Police and Fire Commissioners are appointed by the Mayor	Five years
One member of Poor Commission appointed by the Mayor	One year.
Two members of the Poor Commission are appointed by the Mayor	Three years
Members of the Board of Assessors are appointed by the Mayor	Three years

The following appointments by the Mayor require confirmation by the Council:

Member of the Board of Health	Three years
Cemetery Commissioners	Three years
Assistant Judge of the Police Court	One year
City Physician	One year
Building Inspector	One year

OTHER APPOINTMENTS.

City Attorney, appointed by Common Council.	
Highway Commissioners, appointed by Common Council.	
Milk Inspector, appointed by Common Council.	
City Surveyor and City Draughtsman, appointed by Board of Public Works.	
Assistant City Physician, appointed by City Physician.	
Assistant City Marshal, appointed by City Marshal.	
Keeper of Supply Store, appointed by Poor Commissioners.	
Clerks of Poor Department, appointed by Poor Commissioners.	

Assistant Clerk of Police Court, appointed by Chief Clerk.

Bailiff of the Police Court, appointed by Judge.

Health Officer, appointed by the Board of Health.

Custodian of City Hall, appointed by the Common Council.

Superintendent of Police and Fire Marshal, appointed by the Board of Police and Fire Commissioners.

Assistant City Attorney, appointed by the City Attorney.

Other Deputies and Assistants, appointed by the Heads of Departments.

MAYOR'S ADDRESS

TO THE RETIRING COUNCIL OF 1899-1900.

GRAND RAPIDS, MAY 5, 1900.

Gentlemen of the Common Council:

Tonight finishes the full round of another year, adds another milestone to the history of our loved city and it is meet and proper that we pause for the moment and review the work of the past twelve months. That which we have done in our capacity as the servants of the city is now history and cannot be undone. If we have builded wisely our work will be enduring and it is to be hoped that we have done so. The work of the year has been done in harmony and by harmony I do not mean that harmony that permits the passive doing of wrong. All the members of the council, regardless of party affiliations, have been on the alert, watching for the better interests of the city, the whole city. There may have been some instances when there were matters upon which all were not equally agreed, but such differences were all honest differences, and no suspicion of wrongdoing attaches to any member of the council.

WORK OF THE YEAR.

I am much pleased to be able to state that the city has not been involved in any serious litigation during the year. The amount of legal business has been fully equal to that of years gone by, but, owing to the very able manner in which it has been handled by the City Attor-

ney and his assistants success has generally crowned his efforts. In this connection I cannot help but add my meed of praise to the able manner in which Mr. A. Wurzburg has looked after the testimony in those cases tried in the courts in which the city was a party. The benefits of the arrangement have been so manifest that the wisdom of creating the office has become more and more apparent. The work in the minor courts has been well looked after, and the laws of the city respected by rich and poor alike.

One of the most important acts of the council, in my estimation, was the passage of the ordinance requiring that all the electric wires of the city's streets be placed in the ground, and naming the time when this is to be an accomplished fact. It needs but a single glance at Monroe street, now that it is freed from the unsightly cobweb of wires, to realize that the place for these nerves of the city's body is buried in the streets, and not hanging, a menace to life and a blot on the landscape. I trust that the day will come when all wires and cables may find a resting place-in conduits, where they have always belonged. Some portions of the city had begun to assume the aspect of a cedar swamp, so thickly were the poles set, and I am heartily glad that the change has taken place.

Possibly the next matter, in point of importance, has been the inaugurating of the new accounting system. Much credit is due to the accountant and to the officers of the city affected for the cheerfulness with which they complied with the requirements of the system. I am satisfied that we now have a system that enables the city to get the fullest benefit from all the money that belongs to it, and that it will be impossible for any person charged with the care of money to divert

it from the city depository; or at least, if he does, two other officials of the city must know of such a diversion.

The new lighting plant has been put in successful operation during the year and it is something that the city can justly be proud of. It is the envy and admiration of our sister city, Detroit, and a delegation from that city will soon visit us to inspect the model lighting plant of the west. It is true that the cost exceeded our expectations and that it has taken some of the surplus cash from the treasury, but I believe that it is worth all that it has cost and that the future will demonstrate the wisdom which prompted its erection. Future extensions must be made with great care and much will devolve on the wisdom of future lighting committees, for it must be remembered that we have a capacity for double the number of lights that we are now running. In this it will appear to you that the added cost of lights will be but a small item, as it will only consist in the bare cost of maintaining and trimming. Had the original contract gone through—the contract that I have been blamed for vetoing—the plant would have been at its capacity today and future extensions could have been made only at the expense of added machinery.

One feature of the year that has been very pleasing is the fact of the city's credit standing so high, both at home and abroad. The short-time bonds for street improvements were sold at rate of premium which made the interest rate 3.25 per cent., while we loaned \$100,000 of the sinking fund for four years at 3.50 per cent. This loan deserves more than passing notice, providing as it does for a debt that will not mature until July 1, 1904. To a democrat council will be the credit of providing for the bonded debt of the city hall. The building was dedicated by the democrats, and it is quite

proper that they should provide for the payment of the debt upon it. It would look almost as if it would pay the city to go into the banking business with credit and profit. The city could sell its bonds to borrow money and then loan it out to the banks. This condition of the city's credit is very satisfying and certainly reflects great credit upon those who have the management of the finances of the corporation.

The year has marked an increase in the valuation of the property of the city, and many will pay taxes the coming year that have not felt the burden before. It is the policy of all just governments to divide the burden of taxation, and in this the officials of the city of Grand Rapids stand ready to do their part. Fair valuations of all the property of the state will work no injustice to this city, but rather good, and I believe that the officials charged with the discharge of this onerous duty are doing the best they can with this important subject.

Another important matter that has been accomplished during the year, while not a matter that the Council has to deal directly with, is nevertheless an important one, is the matter of the Board of Works, and its action in relation to the establishment of grade lines. This branch of the city's government has at last consented to take the citizens into its confidence and find out by asking how the property owners want their streets graded. At the present time the Board is considering the grades of several miles of unimproved streets, and where there appears to be excessive cuts and fills the property owners will be invited to appear before the Board and suggest changes. This may not seem to be of itself a very important matter, unless you have seen the work of years destroyed in the changing of the established grade of a street. I believe in follow-

ing, as nearly as possible, the natural lay of the land. and a railroad grade is not in my mind a thing of beauty.

Taxes have been the lowest in the past two years that they have been in this city for the past ten years, notwithstanding the fact that the city has been constantly growing. By judicious management the receipts of the city have been encouraged to grow, too, so that the increase of receipts has been just a little more than the increase of expenditures. The gentlemen who talked so loudly a little time ago about "deficits" have found that their words come back to mock them. There is no occasion for carrying large amounts of the people's money in the banks. The money of the city belongs to the citizens and should remain with them until it is needed by the city. I am glad that the present Council have proved the wisdom of this course, and trust that incoming Councils will profit by it.

Steps have been taken during the year to cause the city to realize on the most valuable franchise that it has in its possession. I refer to the proceedings to cause the street railway to pay for the services of the policemen at its crossings. For nothing at all this corporation came into the possession of a franchise that could be sold for a million of dollars, if it could be sold at all, and it is but just and fair that it should pay the city this small share toward bearing the burden that it helps to create.

The expense of the police and fire departments have still been the principal item in the budget, and I trust that a wise reduction of the police force along the lines suggested in my message of a year ago may prevail for the future. There is a marked difference between the police and fire departments. A police force could be created as fast as the special constables could be sworn

in, while it takes years to educate a fireman in his duties.

A new fire station will have to be established in the Third ward, and to do this take \$3,000 from the amount recommended for the fire department and \$6,000 from the amount recommended for the police department. I think this can be done without impairing the efficiency of either department.

During the year the Kent Scientific Institute offered to make the city the custodian of the valuable collection owned by it. I am sorry that the city was not in a position to take advantage of the offer made by the society, as it would be an irreparable loss if this collection was allowed to be lost to the city. A suitable building could be built in one of the smaller downtown parks where it would be of easy access and where the collection of arms now owned by Mr. Henry Huber could also be displayed, as I understand it to be his intention to donate the same to the city at no distant day. I am sorry that this city has not a Charles H. Hackley who will raise for himself the enduring monument that graces our sister city of Muskegon.

During the present year the State Legislature will meet and some changes will doubtless be made in the charter of the city. If the one great change of the charter could be made, and that is to place the making and amending of it in the hands of the citizens of the city, it certainly would be a great advance. During the year the city had its first chance at a portion of home rule. A chance to say what it did not want. Now if the wisdom of the legislators would only go a step further and give us a chance to say what we do want no more could be asked. Some of the charter changes proposed by the blocks of five amendments were wise and if left to stand

on their individual merits would doubtless be adopted, but the wise and unwise were all linked together and shared a common fate. Much credit is due to the fearless stand taken by our fellow townsman, Hon. Jerry Anderson, or the citizens of this city would have had fastened upon them charter changes that the late election plainly showed were not desired by them.

I still believe that all public utilities should bear a portion of the burden of taxation. The business that depends upon the public streets for its life should return something to the people, either a share of its gross earnings, or else a benefit in the way of reduced prices for the service it renders the public. Our parks should be maintained by the revenues received from these utilities now used and for which no compensation is received at all. Where the city is a partner in the enterprise to the extent of furnishing the streets in which to do business it certainly is entitled to some share of the gain.

The necessity for certain other changes in the organic law of the city have become very apparent during the year, one of which should be made so as to allow the city to publish its official proceedings in some other way than the use of the daily papers. Less than ten years ago the city paid 12½ cents an inch for the publication of the council proceedings. At that time all of the typesetting was done by hand and now, with machines supplanting hand labor, the rate has increased two and one-half times. I believe that some satisfactory way can be devised to make the public acquainted with the doings of the common council that will be less expensive than the plan provided for by the charter.

Plans should be made the coming year for the removal of the present Bridge street bridge to Wealthy avenue, and the replacement of the structure with a

modern bridge the full width of the street. During the present year the approaches across the canals should be built and the street filled into the dock line, this will leave the matter of actual construction of the main bridge ready to be taken up early next year. I think that we can build the approaches without borrowing any money, and I would be glad to build the main bridge in the same way, but I presume it will be necessary to borrow the money for this purpose.

I had intended to be brief in my remarks on this occasion, as it is the close rather than the beginning of a year, but there is so much to say that even now I must leave much unsaid that deserves mention. Attached hereto are the reports from some of the standing committees of the council. The suggestions contained in them are well worthy of the careful consideration of their successors.

GEORGE R. PERRY,
Mayor.

REPORTS OF COMMITTEES.

MARKET.

To the Hon. George R. Perry, Mayor:

Your committee on market have but to report the following fiscal statement from the grounds:

Entrance fees.....	\$2,545 55
Stall account.....	1,748 00
Restaurant	170 00
Weighing	155 40
Total receipts.....	<u>\$4,618 95</u>

All of which has been accounted for to the City Treasurer.

Your committee is pleased to note the constantly increasing growth of the market attendance and the gratifying increase in the receipts of the year, notwithstanding the small crop of fruit that was marketed. The prospects for the coming year are very bright. Your committee have no suggestions to offer other than the continuance of the filling along the lines that have been followed for the past two years.

Very respectfully,

JAMES O. MCCOOL,
Chairman.

CITY ATTORNEY.

Hon. George R. Perry, Mayor:

Complying with your request for a short statement of the work done in my department during the present

year, I desire to say that the volume of work done as compared with other years has been larger and the results have been very satisfactory.

I have made an annual report to the Common Council, which report gives a detailed statement of the work done and the results obtained. The report shows a total of twenty-four cases disposed of in courts of record, none of which the city has finally lost, appeals being pending in the two cases in which we were beaten in the trial court. The Assistant City Attorney has tried 1,256 cases of violation of city ordinances and has secured convictions in all but 12 cases.

Excepting in the Monje damage suit, wherein judgment was rendered Feb. 19, 1899, we have been required to pay no judgments and have paid but four hundred and twenty-five dollars in settlement of claims against the city for injuries. I attribute the favorable settlement of such claims largely on account of the fact that in no case has the Committee on Claims and Accounts been required to rely only on evidence presented by claimants, as the Committee have been furnished full information in all cases by an employe in my office.

At the beginning of my term of office, based on my former experience in the trial of such cases, I assumed that we would encounter serious difficulty in obtaining accurate data with which to protect the interests of the city in damage cases unless the circumstances surrounding an accident were carefully investigated and made note of at the time such accident occurred, and I therefore petitioned the Common Council for permission to employ some one to perform the duties of this office in this regard, and was authorized to employ by the day such help as might be needed. This I have done and am frank to say that I feel justified in having employed such

help for the entire year—am satisfied that this arrangement should be continued and feel safe in saying that the results obtained from the experiment justifies my course in this regard.

Respectfully submitted,

L. K. SALSURY,

City Attorney.

CHARTER AMENDMENTS.

Hon. George R. Perry, Mayor:

Your Committee on Charter Amendments was not actively engaged during the past year, as the Legislature has not been in regular session.

At the special session of that body, held in May, 1899, the act authorizing the city to issue bonds for the construction of a bridge at Bridge street was duly passed.

The various charter amendments recommended by our predecessors were enacted, with some changes, on the recommendation of this committee. These amendments, which required the confirmatory vote of the people, were submitted at the recent election and were rejected by the people voting thereon.

Your Committee would recommend, among other things, that the charter be amended so as to allow the temporary borrowing of funds and the permanent transferring of funds be made legal and valid, as this matter is not now covered by the charter.

Respectfully submitted,

J. C. SHINKMAN,

Chairman.

SALE OF FRANCHISES.

Hon. George R. Perry, Mayor:

The Committee on Sale of Franchises have but little to report to your honor, as it has had but the one franchise ordinance to dispose of during its existence, viz., that granted to the Belt Line, and not yet in operation. Your Committee is of the opinion that no tax should be put upon a franchise that is not of its nature a monopoly, and that the natural competition of opposing business interests will fix the rates of compensation to be charged, while no franchise should be granted that will create a monopoly on any rate at all. Franchises that create a monopoly should be owned by the city and their use granted only on the payment of such a rent as might be just and reasonable. The state laws should be so changed so that either the state or the municipality could regulate the charge to be made for the use of telephones, as it seems impossible for the cities of the state under the present law to even make a franchise regulation that is of binding force. The city of Detroit granted a franchise ordinance that fixed the rate to be charged for the use of telephones and when the company was absorbed by a rival, the rate was lost.

Respectfully submitted,

JOHN MUEHLING,
Chairman of Committee on Sale of Franchises.

ORDINANCES.

Hon. George R. Perry, Mayor:

The Committee on Ordinances has considered twenty-seven ordinances during the past year, the same being as follows: An ordinance relative to the building lines on Lafayette street, which was denied. DeCommer Park

ordinance, passed. Relative to excavations in streets, passed. Kinney Court, ordinance to change the name, passed. Ordinance to name Fulton street Park "Louis Campau Park," denied. Ordinance naming "New England Place," passed. Ordinance relative to markets, denied. Ordinance to regulate plumbing, passed. Ordinance relative to the storage and sale of oil and gasoline, left over from last Council, passed. Ordinance relative to sprinkling of streets, passed. Ordinance relative to sand on sidewalks, denied. Ordinance relative to the bond to be given by the builders of sidewalks, reported favorably by Committee and not passed by the Council. Ordinance relative to the depositing of material in the streets, passed. Amendment to the ordinance licensing transient traders, passed. Ordinance relative to the use of the Union Label on printed matter purchased by the city, passed. Ordinance relative to conduit system and naming time when all wires shall be placed under ground, passed. Union Depot ordinance, left over from previous Council, passed. Ordinance relative to hucksters, designed to make this calling less noisy, was reported by Committee, and failed to pass the Council. Ordinance relative to making the same charge for hearse as for a hack at funerals. Prohibiting free lunches. Regulating meat dealers and Renumbering the City have all been considered, but not reported to the Council. The only franchise ordinances granted during the year were the one to A. O. Crozier for a belt line railway, and the Grand Rapids Electric Light and Power Co., to enable it to do commercial lighting after the expiration of the city contract. There is yet pending in the Council the ordinances relative to licenses, the franchise to the Grand Haven Electric road, the hot water heating franchise and an ordinance relative to electric wiring. The work

of the Ordinance Committee has been important and laborious during the year, and much thanks is due the City Attorney and his assistants for many favors shown.

Your Committee would recommend that during the coming year the ordinance relative to employment bureaus be so amended as to reduce the license fee, such license appearing to be out of proportion with other similar licenses. That the ordinance relative to newsboys and bootblacks be repealed, said law having become practically obsolete.

Respectfully submitted,

WILLIAM H. STEWART,

Chairman Committee on Ordinances.

PARKS.

Hon. Geo. R. Perry, Mayor:

The Committee on Parks would report the work of caring for the city parks as progressing satisfactorily, and that much has been accomplished the past year. The principal improvements have been made in John Ball Park, where 10,075 yards of macadam pavement have been laid at a cost of 33 cents a yard, as compared with 28 cents a yard for the same class of work done last year, the added cost being due to the higher price of stone for crushing. The main road has been widened and extended back with curb and brick gutters. In widening the road a very good spring of water was encountered, and to make use of it a grotto was built on the south side of the road similar in character to the one at the entrance. The ground to the south of the greenhouse has been graded and set with trees and shrubs, and a much needed addition to the greenhouse constructed. The total amount spent for the parks of the city during the past year is somewhat in excess of

\$36,000, and it must be expected that this amount will be exceeded from year to year as each added improvement calls for the expense of maintaining it. The question of water for the lakes is becoming a serious one, as the committee contemplate the building of a lake on the flat ground lately acquired by the city, and it certainly is wasteful to pump water from the river into the reservoir to supply these lakes. The committee would be glad to have it ascertained if it would not be possible to secure water for these and other park uses from the Byers springs just south of the park, which rise at an elevation which would render pumping unnecessary. The city should build and control a shelter house at John Ball Park as soon as it can be done. Such a building is a decided necessity, and in it space could be provided for the sale of the articles allowed to be sold in the park, thus doing away with the unsightly structures that now disfigure the place. The music on Sundays has been the source of satisfaction to many thousand people during the year, and your committee would recommend that music be given Saturday afternoons as well as on Sundays. During the year some miscreant poisoned the two young bears and every effort to apprehend the party has so far failed. The A. J. Brown Seed Co. made a donation of a fine brown bear as a sort of Christmas present to the city, and it is now in the cage made vacant by the death of the cubs.

The city came into the possession of a park in the south part of the city by the generosity of Martin J. Ryerson, this park named the Antoine Campau Park, in memory of the pioneer who once occupied the site as a homestead. This park has been graded and set with large trees. The walks are being built and shrubs set out. So far as this park is concerned but little can be

done this season, as it will be necessary to allow time for a sod to form. This park will be one of the most attractive in the city in the course of a few years. Lincoln Park has received considerable attention, and excavating for a lake on the west side of the ground has been commenced, a new road has been completed. The work of the contemplated improvements on this park will of necessity be postponed to some more favorable opportunity. Lookout Park has had considerable sodding done during the year and is a much-visited spot. In Highland Park roads have been built and shrubs set out. A start has been made toward a display of shrubs in the form of an arboretum, with the 125 varieties of trees and shrubs lately bought and now being planted.

The committee would recommend but little new work in the parks the present year, and that the money expended be for maintenance alone. In the near future, in addition to those things already suggested, the macadam should be extended from Park avenue to Butterworth avenue, and a drive built across the north forty acres, so that the public can have access to the same. A road should also be built to follow the ravine and connect with the extension of Fulton street. All improvements made from this on should be of a permanent character, as the rustic work is fast going to decay. The animal feature of the parks should be made as attractive as possible, and for this purpose the accommodation for the same should be enlarged, particularly the winter quarters.

CHARLES H. PHILLIPS,
Chairman Park Committee.

PERMITS FROM MAYOR'S OFFICE.

Hon. George R. Perry, Mayor:

Complying with your request I herewith append statement of all permits issued by the Mayor's office for the year ending May 5, 1900:

In this connection I would say, that every precaution has been used during the year to make the issuance of permits as near a charity as possible. No person has received a permit except on the recommendation of some well known person and the sanction of the Alderman of the ward in which the applicant lived. All cases have been personally investigated and eleven permits have been revoked because of misuse by the person to whom the same were allowed. I would suggest the use of some special device to mark occupations that are permitted to exercise their vocation by reason of a permit from the Mayor's office, so that the public could be taken into the confidence of the Mayor's office, and so assist in detecting any abuse of the privilege of permit. The total value of all the permits issued, taken at the schedule in force during the year, was \$531.00, which probably represents a saving to the poor fund of several times that amount.

The following is a list of the permits issued:

To vend toy balloons, 2; display banners, 24; vend birds, 1; vend badges, 1; blasting, 3; vend brooms, 4; combs, 1; cards, 1; candy, 1; cement, 1; corn salve, 4; dry goods, 2; express wagon, 4; vend extracts, 3; exhibit bear, 1; magic lantern, 2; goods on street, 2; fire extinguisher, 1; curiosity, 1; vend flowers, 2; fish caught in Grand river, 19; gun club permits, 2; vend hat pins, 1; hack, 1; vend lace, 3; musicians, 18; market, 1; medicine, 4; milk, 3; move traction engines, 10; notions, 13; oil, 3; parades, 22; paste, 1; pol-

ish, 1; pencils, 4; picture frames, 1; popcorn, 8; restaurant, 2; rags, 10; renovator, 1; sprinkler wagons, 3; sand, 1; second-hand goods, 2; subscriptions, 3; news stands, 5; toys, 1; vegetables, 34. Total, 237.

It possibly occurs to your Honor that this is a very large number of permits, but I beg to assure you that the number is less and the value less than one-half that of the preceding year. It has been the policy of the office to issue a permit for the shortest time possible, hoping that the recipient would be able to pay the license fee, and this has caused the issue of one or more additional permits to the same individual. The rule established by your Honor, that permits should only be issued for business upon the license schedule when it was a matter of actual charity, has been strictly adhered to and the results have demonstrated the wisdom of the rule.

Yours very respectfully,

F. W. HUNTER,

Mayor's Secretary.

WAYS AND MEANS.

Hon. George R. Perry, Mayor:

The committee on Ways and Means has disposed of all the business referred to it during the year in a manner that has seemed satisfactory to the Council. A year ago this committee spoke of the necessity of some system of bookkeeping in the city hall and cash payments directly to the Treasurer. During the year such a system has been installed and for the first time in the history of the city the finances of the city are being conducted in what may be called a "business-like way." The various city officers affected by the installation of the system are entitled to much credit for the cheerful

way in which they have waived technical objections to the system and assisted the accountant. The element of safety contained in the system is its principal recommendation, as it will be impossible for anyone having the right to handle city money to divert it from the treasury even for a short time without at least two other city officials having notice of the fact.

The practice, somewhat indulged in of the Common Council, extending the time for the collection of special improvement rolls, should be discontinued if the city expects to meet the special improvement bonds from the receipts of the rolls for special improvements. The estimates made by the Council at the commencement of each fiscal year should be strictly adhered to, and money not advanced to meet any requirements except those coming from an emergency that could not be foreseen at the beginning of the year. The tendency to overrun an estimate is common, and the only way that this is to be met is to resolutely stay inside of the original estimate.

The committee would recommend such charter changes as would enable the collection of taxes, both delinquent and others, to be centralized so that a person could ascertain the amount of all the taxes on a given piece of property from one office. The committee would also recommend that assessment districts be made in smaller parcels when the assessment is for an improvement that is against farming property, as for instance the Plainfield avenue improvement.

Respectfully submitted,

THOMAS DORAN,
Chairman Ways and Means Committee.

LICENSES.

Hon. George R. Perry, Mayor:

The Committee on Licenses call attention to the re-arranged schedule of license fees, which has been arranged with the assistance of the Committee on Ordinances, and is expected to increase the revenues of the city from this source materially. In arranging the schedule the committee has had but one purpose in view and that was to cast some burden on certain business enterprises that can be reached in no other way. In doing this every effort has been made to be fair and not oppress any legitimate business. Your committee also made an earnest effort to elevate the standing of the saloon business in the city by discouraging the applications of all who have not conducted orderly places. In the opinion of the members of the committee the business of conducting a drinking place is just as legitimate as any other, and the standing of those engaged in the business is what they make it. Your committee believe that 90 per cent of all engaged in the liquor business are respectable, law-abiding citizens, and to make the other 10 per cent the same, or to go into some other business, has been the aim of the committee and should guide the course of the incoming committee.

Respectfully submitted,

MALCHI KINNEY,

Chairman Committee on Licenses.

BUILDING COMMITTEE.

Hon. George R. Perry, Mayor:

The Committee on Buildings have continued the work of renovating the City Hall during the past year, and finished the second floor in the same style as the bal-

ance of the building. We would recommend that the new committee continue the work on the building and re-finish the fourth floor by cleaning and painting. This would refinish the entire City Hall on the inside and put it in good shape for several years. Some steps should be taken to improve the elevator service, either by re-boring the cylinder or substituting electricity for power in the place of water. Your committee believes that a decided saving can be made to the city by the use of electricity. A new cable will be needed for the elevator soon, and should be ordered before the one in use becomes so worn as to be unserviceable. The boilers should be overhauled and cleaned out. Two flues were taken out during the winter and replaced with new ones, and the condition of those removed shows that the boiler is becoming somewhat worn. The lower hall and corridor should be kalsomined and cleaned.

Yours very respectfully,

CLARK E. SLOCUM,
Chairman Building Committee.

COMMITTEE ON HEALTH.

*To the Honorable Mayor and the Common Council of the
City of Grand Rapids:*

GENTLEMEN—The Committee on Health for the fiscal year 1899-1900, acted upon the suggestions made by the Committee on Health for the fiscal year 1898-1899, embodied in its annual report, viz., that the old settling basin be transformed into a swimming pool, investigated the matter and recommended that a sum not to exceed \$100 be expended in preparing part of the settling basin for bathing purposes. Under the direction of the committee \$83 was expended in building dressing rooms, a dock and spring-board for diving purposes and in string-

ing a cable to prevent small boys from getting into deep water. The bottom of the basin was also relieved of weeds as well as the accumulations of tin cans and other articles not ordinarily considered promotive either of the safety or pleasure of swimming. In a few weeks it became apparent to your committee that the boys in the vicinity, or perhaps those from a distance, did not appreciate the kindly intentions of the Council in appropriating money for "swimmin'" purposes, for in a short time the diving spring-board as well as such boards as could be loosened from the dock were carried off. And further, the boys interfered with the flow of water through the gates at the outlet, sometimes causing the water to become so deep as to make it dangerous for the smaller boys and those who were not good swimmers to venture into the water. This really determined your committee to recommend to the Council that the basin be closed. We are of the opinion, however, that there are many boys who appreciate the efforts of your committee and the kindness of the Council, and also that if good order and cleanliness were maintained at the basin many boys would go there on their wheels from all parts of the city. To this end your committee would recommend that no more attempts be made to transform the basin into a swimming pool unless provision is also made to keep a man "on guard" to prevent the abuses referred to and to guarantee good order. Your committee believes that a charge of 1 cent for each bather would nearly defray the expense.

The next matter referred to your committee was the remonstrance of R. J. Kirkland and six others against renewing a license to R. L. Bliss & Co., on South Division street for conducting a lard rendering establishment. Your committee made several visits to the premises of

the Bliss company as well as to the Sheldon street residents who were the remonstrants in the matter. Upon these occasions your committee did not consider the odor emanating from Bliss & Co.'s establishment sufficiently offensive to warrant them to order Bliss & Co. to discontinue rendering lard. Your committee on these occasions asked the residents if the odors then apparent were the ones of which they complained. In every instance they (the committee) were informed that "It is much worse sometimes." Upon learning this the committee usually left with the admonition, "Call us up when it is at its worst, and we'll come again." As the "very worst" period did not seem to put in an appearance your committee heard no more complaints.

The next matter referred to your committee was occasioned by the low water and the growth of weeds in the river bottom. In this condition the weeds intercepted the flow of the sewer emptyings, causing them to putrify with consequent obnoxious odors arising. To have removed the weeds as was urged by some would have entailed an expenditure estimated at from \$800 to \$1,200. As this was in August after an unusually long "dry spell," with every prospect of rain in a few weeks at most, your committee did not think that the occasion warranted the expenditure of the amount estimated as the cost of the work, and so determined to "pigeon-hole" the resolution and pray for rain. Two weeks after the date that the matter was referred to your committee, the Mayor requested and obtained permission to appoint a "mixed" committee to investigate and report upon the steps to be taken to permanently relieve the situation.

The next matter taken up by your committee was in regard to providing an ambulance for the transferance of contagious disease cases, as suggested by the

Health Officer and City Physician in a joint communication to the Council. It had been the practice of the Poor and Health Boards to hire hacks when it became necessary to transfer contagious disease cases. The Health Officer and City Physician called the Council's attention to the fact that though disinfected after such use, each hack was still an unnecessary menace to public health which the state law prohibited. They suggested that one of the city ambulances be placed at the disposal of the health authorities for use in such cases. Your committee found upon investigating the matter that Mr. Idema of the Poor Commission had induced O'Brien Bros. to add a "contagious disease ambulance" to their equipment, which may be rented by anyone upon payment of a certain fee or rental. This is a decidedly "happy" solution of the problem, as it affords the city authorities all of the benefits which would ensue from the ownership of a special ambulance and relieves the city of the expense of maintaining such an ambulance, to a large extent.

The last matter referred to this committee was the resolution of Alderman Slocum, noting that the Board of Poor Commissioners paid but \$3.00 to the Board of Cemetery Commissioners for burying deceased city poor charges in the permit ground, while the Board of Health paid the Board of Cemetery Commissioners \$6.00 for the burial of its charges, addressed an inquiry as to whether arrangements could not be made whereby the Board of Health could take advantage of the rate accorded the Poor Department. Your Health Committee found from interviewing Commissioner Barlow and Secretary Hunter that there was every likelihood that the contract with the Poor Department would not be renewed, as the actual cost of opening a grave amounted to more than

\$3.00. The committee was also advised that in all probability the \$6.00 rate would be the lowest at which the Poor Department could contract for the ensuing year.

Respectfully submitted.

HARRY C. WHITE,
JOSEPH RENIHAN.

SUPPLIES.

To the Hon. George R. Perry, Mayor:

Your Committee on Supplies found on entering upon the duties that they would have to create the method of conducting their affairs, as it was practically a new committee, and is the first time, so far as your committee has been able to learn, that it has been recognized by any of the departments. The committee inaugurated a rule that requisitions for supplies should be made once a week and presented to the committee so it could be acted upon by the committee as a whole, but we soon found that this was impracticable, as the various departments had to have supplies when called for and could not wait for the entire committee to assemble in regular session before having their wants supplied; your committee therefore did not enforce this rule, but authorized their chairman to furnish the articles as soon as the requisitions were made. This has entailed a good deal of extra work, as your committee did not feel justified in carrying a stock of goods for the few departments who received their supplies through this committee. Your committee is of the opinion that if all the departments in the city hall were to receive their supplies through the Committee on Supplies that a large amount of money could be saved by putting in a stock of staple articles, as they could be purchased in

larger quantities, thereby securing a lower price, and indiscriminate buying by the departments at retail would be abolished. Your committee would therefore recommend that all supplies that are to be paid for by this Council be purchased by the Committee on Supplies, and that no bills for supplies be allowed or paid unless approved by the committee.

Respectfully submitted,

CHAS. K. SEYMOUR,
D. E. LOZIER,
Committee on Supplies.

MAYOR'S MESSAGE

TO THE COMMON COUNCIL 1900-1901.

Gentlemen of the Common Council:

We start this another year of the municipal life with but few changes in the membership of the Common Council; five new members take their seats with us to-night for the first time, and these with 19 members who have had the experience of two or more years will have the labor of managing the different departments of the municipal business. The work will be materially lightened as compared with former years, and we can safely expect a prosperous year for our beloved city. To end the nineteenth century and be in a position to commence the twentieth is the highest position ever attained by this commonwealth, either commercially or financially.

The credit of the city is not excelled by any municipality of equal size in the country, and it should be gratifying to our citizens to know that their city's securities are eagerly sought by investors and dealers in securities. It is our duty to be ever watchful and guard against anything that might result in financial loss to the city or the impairment of its credit. The budget as recommended by the old Council provides sufficient funds for the running expenses for the coming year, and every department will be expected to live within the amount appropriated. By giving this due and timely notice you must not be surprised if an attempt to exceed the amount appropriated was followed by a veto. One hundred thousand dollars of the sinking fund has been loaned to

a local bank, putting this amount beyond the control of the council for four years to come.

The only change that I would suggest in the budget as proposed is this: I would take \$6,000 from the amount allowed to the police fund and \$3,000 from the amount allowed to the fire department fund and build an engine house on Diamond street. This fire station is badly needed, as this rapidly growing portion of the city is without adequate fire protection. The money to be collected from the street railroad company for the pay of the salaries of the policemen at the crossings will reimburse the police fund before the money will be needed in that fund, even should the expense of the department come up to the expectations of the department. Or, if the city should be compelled to force the payment of the patrolmen's salaries from the railroad company, a contingency which I do not expect, the largely increased general receipts of the city will take care of any deficiency that may exist, and other sources will provide the money for the maintenance of the department. I hope that the new management of the street railroad company will see the justice of paying the small share toward the expense of the city, and not make any further demur about the payment.

The drinking saloons of the city pay an annual tax of \$500 and are entitled to certain protection rather than persecution. Drug stores pay no liquor tax at all to the state, and I am certain that some of them sell beer by the bottle and whiskey by the glass. Such as do should be compelled to take out a saloon license. I am satisfied that 95 per cent of the drug stores do a legitimate drug business and their proprietors look with much disfavor on the few who do an unlicensed saloon business. The time has come when a halt should be called in this

regard. To my mind the licensed saloon is far less an evil than the unlicensed "blind pig." Therefore if the drug stores in the resident district cannot be controlled in the sale of malt and spirituous liquors I believe in using the saloon to drive them out. The saloon pays for the privilege and the city gets the benefit from the tax.

I believe that every employe of the city is entitled to a certain vacation, say 10 days, with pay, and that all should be treated alike. The man who works in the office and he who toils on the street all should be used alike in this respect. Policemen, firemen, clerks and laborers all to receive the same treatment and all to be placed on the same list. For my part I could never appreciate the justice of the system that allowed the high salaried man to take all the time off he desired to do without loss of wages, and that docked the man working on the streets for half a day's time lost because it rained.

The question of an adequate supply of good water and the building of a bridge the width of the street at Bridge street; the construction of a bridge at Wealthy avenue, or supplying the need by the removal of the existing bridge at Bridge street to the location, are questions of first importance to our city. We will have sufficient funds the present year to build the approaches to Bridge street bridge. This fall we can submit to the people a proposition to bond the city for \$125,000 to carry out the project of building a modern bridge at Bridge street and the removal of the present bridge to Wealthy and Butterworth avenues. This is the only bonding project I will favor for the coming two years, but I am strongly in favor of building a proper bridge at Bridge street, and it is proper that it should be done by bonding the city. This plan if carried out will sup-

ply the city with all the bridges that it will need for some years to come.

The question of a pure water supply is one of the most vital ones to any municipality, and I am determined to do all that lies within my power to give our citizens not only pure water, but cheap water as well. If this city is to continue to increase in population, and I think that it is, if it is to be successful in inducing new industries to locate here, the cost and purity of the water supply is next in importance to the question of taxes. Both the tax rate and the cost of water must be kept at the lowest point consistent with good management. To keep down the cost of water it is only necessary to use good business management and prevent waste. To keep taxes down means the cutting off of unnecessary expenditure. With our largely increased receipts from year to year we can, in the course of a few years, have the entire water system remodeled, and the cost will not be felt by the average citizen. We can do this without adding to the bonded debt of the city if we will only formulate a plan and then build to it even if it takes years to complete it. Rome was not built in a day and was not the less enduring because of the time consumed in the building. The adoption of a broad, comprehensive plan adapted for the needs of a city twice, yes three times the present size of Grand Rapids will be the first step toward the solution of the problem that has vexed the fathers of the city for the past 20 years.

The situation is one filled with responsibility not only to the present inhabitants of the city, but to those that come after when we have passed away. Such being the case we must take a broad view of the entire matter, one that will exclude any personal prejudice or preconceived notions.

In the past there has been much talk regarding the betterment of the water supply and there the matter has rested. It has been talk and no action. I hope that we can reverse this process and have little talk and much action. What is needed is an adequate supply of water for the needs of the city for all time to come—water that will be fit to drink and to use for all the domestic purposes of life, such water as the average citizen can drink without a feeling of disgust. We are confronted by the proposition of a city of a hundred thousand inhabitants, pumping an average of 14,000,000 gallons of water a day. A private water company in competition furnishing two and one-half-million gallons for domestic consumption. Five or six firms making a business of supplying water in bottles to persons who have access to the city water mains. It is estimated that \$20,000 a year is spent by our citizens for the luxury of water furnished by the bottle. If the city had water of a comparative quality there is no question but that this money could be turned into the treasury or at least saved to the citizens.

The history of the city's search for water does not read like a romance, but it is quite as interesting. In 1840 the Grand Rapids Hydraulic company was granted a charter by the state—this charter is perpetual—and soon after the company began to serve the inhabitants with water. The supply was gathered from the numerous springs that broke out at the foot of the hills on the east side of the river. In 1875 the Hydraulic company was operating about eight miles of service, most of which was of the pump-log style.

In the latter part of 1870 the Common Council began the agitation for a public water supply, and in May, 1871, Mr. J. L. Pilsbury submitted a report to the council on the question of public water supply. His report

recommended Reed's lake as a source of supply, theorizing that the surface of the lake was the exposed surface of a vast reservoir reaching in and through the permeable soil of the vicinity and that water would rush in to take the place of that drawn off. His theory was not put to a test until some time later, when the fallacy was shown by the rapid fall of the lake when called upon to supply a small fraction of the water needed by the city.

In April, 1873, Peter Hogan of Albany, N. Y., made a report on the subject to the common council. Mr. Hogan considered as sources of supply, first, the river; second, Reed's lake; third, Coldbrook and Carrier creeks; fourth Lamberton lake and creek. Green lake and Rouge river were also considered by this gentleman, and he remarked in that connection: 'In view of certain contingencies that may arise in the remote future.'

Mr. Hogan recommended Coldbrook and Carrier creeks as a source of supply. Lamberton creek to be called upon in case the demand was even more than the two creeks could supply. His plans were approved and carried into partial effect during the year 1873. July 30, 1873, by practically a unanimous vote, the city voted bonds in the sum of \$250,000 to construct water works with Coldbrook, Carrier and Lamberton creeks as sources of supply. The storage reservoir on the hill was built as a portion of the original plan. The original plan contemplated building along the creeks for the purpose of impounding the waters, but this idea was abandoned and a small settling basin built instead. This is the same basin that the council attempted last year to convert into a swimming park. The source of supply was soon found to be inadequate, while the increase of population in the vicinity of the creeks rendered the quality of the water unsanitary.

Water was first pumped into the city's mains in the fall of 1873 by pumps located in several of the factories. The first pump owned by the city was a Worthington duplex located in a wooden building near the foot of Mason street. Water was taken from the river until June 9, 1875, when the water was taken from the creeks. For a little time all was well, then the supply failed to meet the demands and in 1879 the Common Council again took up the subject of a better supply of water. The Council authorized the city engineer to make investigations and report. Mr. Seckel was then city engineer and he made a report to the Council in June, 1880. In this report Mr. Seckel named as sources of supply, Lamberton creek, Coldbrook and Carrier creeks, Saddlebag swamps and Indian Mill creek. He strongly urged the last source of supply and proposed to soften the naturally hard water by chemical process. No attempt was made to carry out any of his recommendations.

In 1884 the question again agitated the public mind and Mr. Seckel was again instructed to search for a supply. The result of Mr. Seckel's last efforts in the search for water was made the following year and is in the shape of an exhaustive report on the subject of gallery filtration. The galleries to be located along the river bank to the north of the Soldiers' Home. The Board of Public Works was favorably impressed with the scheme and recommended its adoption. The people were asked to bond the city that it might be put into effect. The people disagreed with the board and the vote to bond failed of approval.

The next step was in 1887 when a citizen's committee, composed of thirteen of the most prominent citizens, was appointed by the Mayor to investigate and report

on the question. This report can be found on page 181 of the Council proceedings of 1887-88. This report in brief recommends the use of water taken from the river above the Soldiers' Home after allowing it to settle before pumping it into the mains. Plaster creek was also mentioned as a possible source of supply. This committee called into its service the best engineering talent that it could find at the time. J. D. Cook, one of the experts employed by the committee, championed the use of Plaster creek, but admitted that the water was of no better quality than that in the river above the Soldiers' Home.

Mr. Murphy, another of the engineers employed by the citizens' committee, urged the building of a large reservoir on the banks of the river at a point where it would collect the water from Lamberton creek and the numerous large springs in the vicinity, into which the water of the river could be admitted when the same was needed or when it was in a suitable condition for domestic use. John F. Ward of Jersey City also submitted a report in which he recommended the use of the river taken from a point above the Soldiers' Home. The committee then invited Mr. Cook to make plans and estimates for a supply from the river above the Soldiers' Home and asked the Council to borrow \$250,000 to commence the work. The entire scheme contemplated the laying of some twenty miles of new mains, stand pipe for the hill district, the whole cost to be about \$550,000. The proposition was submitted to the people and defeated at the polls. Two loans have been made since and the money used to better the service but nothing has been done in the way of bettering the supply. After the defeat of the proposition to go above the Soldiers' Home for a supply, connection was made with the river

at the pumping station, since which time water has been taken from there. The supply from the creeks had been so low the preceding year that a drain was dug connecting Fisk and Reed's lakes with the supply, but the water in the lakes fell so rapidly that this source was abandoned in the face of threatened litigation. Early in 1890 the creek supply was abandoned altogether and the river has been the entire source of supply for the past ten years.

During the fall of 1890 the Cook Well Company of St. Louis, Mo., put down seven driven, or bored, wells, in different parts of the city. Its object being to ascertain if there might be a sufficient supply of ground water for the city supply. The outcome of the experiments was that the company offered to sink wells and furnish a supply of 10,000,000 gallons of ground water a day. The proposal was accepted and a bond required. For some reason the bond was never given and the contract remained unexecuted.

During the past year Messrs. Hazen and Gray, water experts of national reputation, have made a report on the conditions here and recommended the river with the addition of a slow sand filtration plant.

It will be observed that the consensus of opinion is that we will have to rely on the river for the supply of water for the city. There is no other body of water large enough, except Lake Michigan, within reaching distance of the city, and I fear the cost of a plant to bring Lake Michigan to our doors would be prohibitory.

From the foregoing brief synopsis of the reports made during the past twenty years and the recommendations made by the late experts, Messrs. Hazen and Gray, I believe that the time has come to make a start and assume that the river above the Soldiers' home be

decided upon as the proper place. If this be so, we cannot afford to lose sight of the fact that on the land owned by Mr. Bailey, north of the Soldiers' home, there are several large springs of the purest water, with a flow of some four or five million gallons daily. In all probability this flow of water could be materially increased. This land has a river frontage of over two miles with high banks. Its natural position is such that it would almost seem as if the Creator had designed that the city should go to this point for its water supply. The river at this point is some 15 feet deep and water taken from it at this point has been shown by analysis to be quite pure, with no trace of sewerage. In this connection it should be remembered that the Rouge river enters the Grand river near this location and that the water of the Rouge river is very pure, flowing as it does through a sparsely settled district. The bed of the Rouge is rocky and its current swift. To my mind Grand Rapids would have a very good supply of water if none but river water was used taken from this point. This land should be secured as soon as possible and arrange so as to secure the water from all the springs and develop the same as much as possible. What water could not be supplied by the springs take from the river to make up the deficiency.

If we are going to change the source of supply, or rather go further up the present source, let us not make the same mistake that our sister cities have made and not go far enough to get beyond the limits of the pollution of the city itself. Detroit moved the intake of her water works but a few years ago and now finds itself confronted with the fact that when it was moved it was not moved far enough. Factories stretch along for a mile east of the intake of Detroit and the city finds it made the fatal mistake of not going far enough to avoid

pollution. A member of the water commission of Detroit told me that the intake should have been located eight miles east of its position and it would only be a question of time when it would have to be removed again.

The Board of Trade of this city has taken some time to discuss the question of boulevards along the river. Why not commence at the bridge north of the Soldiers' home and lay out a fine drive along the river to the north? This portion of the river is most picturesque, and in time the land purchased not for the water purposes could be made into a splendid park. Another item of interest to be taken into account should this land be secured is the large amount of granite stones and boulders to be found upon it. A considerate estimate places the amount at 20,000 cords. We are using this class of stone on our streets and it is easy to figure the value of this stone to the city. The land would be needed should it be decided to put in a filter system. It would seem to be a good business judgment to decide at once on our plan and then purchase the land and commence to work to some definite end.

The day is not far distant when we shall be obliged to make a move for our own protection, for you must remember that the city has a competitor in the Hydraulic Company and that they are pumping over 2,000,000 gallons daily and unless the city takes some pains to supply its customers with good water as well as cheap water the Hydraulic Company is liable to extend its system and become a still greater competitor. If we believe in the future growth of the city and it seems to me as if its future is even more promising than the past, then we will be derelict in our duty if we fail to grasp the situation and provide for that future. More especially so

when our supply is at the present time unfit for domestic use.

I have gone into this subject of a water supply for our city and I hope that during the next two years we will put forth our best efforts to make the change. I believe that we should lose no time in purchasing the land along the river north of the Soldiers' Home so as to make a start. I shall therefore appoint the same committee on the question of water supply for this year and hope that before another twelve months shall elapse we will have made a beginning toward supplying our city with pure water and cheap water.

In conclusion I will say that I desire to impress upon the minds of the members of this council the necessity of doing the following things:

First, to secure a suitable supply of water for all the needs of the city, not only for the present but for all time to come.

Second, to build the approaches to Bridge street bridge and prepare the way for a modern bridge the coming year, removing the present Bridge street bridge to Butterworth avenue.

Third, to live within our means. By this I mean to use no more money for any purpose than the amount appropriated for the purpose.

Fourth, to use exceeding care in ordering the improvement of streets. Be sure that a majority of the frontage is in favor of the improvement so that the city will not be obliged to carry a considerable amount of the cost of the improvement.

Fifth, continue the work of getting the wires into conduits. The charter might be amended so that the city could build conduits for its own use and to rent to other corporations needing the use of the same.

Sixth, to be slow in changing the established grades of streets. To be sure that a change in the established grade met the approval of the residents along the streets.

Seventh, to extend the lighting system so that all of the down town alleys will be adequately lighted at all times.

By giving all of our attention to these subjects and working for them alone, we will have, with the routine business of a corporation doing a business of over a million a year, enough to keep us busy for the year.

GEORGE R. PERRY,
Mayor.

ANNUAL REPORT OF MAYOR AND CITY CLERK.

OFFICES OF THE MAYOR AND CITY CLERK, {
GRAND RAPIDS, MICH., April 24, 1900. }

To the Honorable, the Common Council:

GENTLEMEN—In accordance with the provision of the charter, we herewith present a statement which, together with the accompanying Treasurer's report, gives the receipts and expenditures of the city during the preceeding year, the several items of expenditure made by the Common Council, the subjects and purposes for which they were made, the amount of money expended under each, the amount of money raised for the general contingent expenses, the amount raised for lighting the city, the amount of money raised for the police and fire departments, the amount of highway taxes and assessments for opening, paving, repairing and altering streets and building and repairing bridges, the amount borrowed on the credit of the city, the amount of bonded indebtedness, and other information as to the financial concerns of the city during the municipal year of 1899 and 1900.

ANNUAL REPORT.

BONDED INDEBTEDNESS, APRIL 25, 1899.

Water works.....	\$ 855,000 00
School (city).....	275,000 00
City Hall.....	150,000 00
School (assumed by annexation).....	17,500 00
Street improvement 5th series.....	150,000 00
Street improvement (series of 1898-9).....	200,000 00
Special.....	150,000 00
Market site.....	75,000 00
Lighting plant.....	125,000 00
Total.....	\$1,997,500 00

BONDS PAID IN THE PAST YEAR.

School (city).....	\$ 10,000 00
School (assumed by annexation).....	10,500 00
Street improvement.....	90,000 00
Total.....	\$ 110,500 00

BONDS ISSUED IN THE PAST YEAR.

Street improvement (issue of 1899-1900) at 4 per cent	\$ 200,000 00
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BONDED INDEBTEDNESS, APRIL 24, 1900.

Water works.....	\$ 855,000 00
City hall	150,000 00
School (city).....	295,000 00
School (assumed by annexation) ..	7,000 00
Street improvement.....	460,000 00
Special.....	150,000 00
Market.....	75,000 00
Electric light	125,000 00
Total.....	\$2,067,000 00

ASSESSMENTS FOR GENERAL PURPOSES BY DIRECT TAXATION.

General fund ..	\$ 8,000 00
Fire department fund	105,000 00
Police department fund.....	75,000 00
Public lighting fund.....	35,000 00
Poor fund.....	10,000 00
Bridge fund	3,500 00

First ward highway fund.....	\$ 5,000 00
Second ward highway fund.....	5,000 00
Third ward highway fund.....	4,000 00
Fourth ward highway fund.....	6,000 00
Fifth ward highway fund.....	3,000 00
Sixth ward highway fund.....	3,000 00
Seventh ward highway fund.....	2,500 00
Eighth ward highway fund.....	3,000 00
Ninth ward highway fund.....	3,000 00
Tenth ward highway fund.....	3,000 00
Eleventh ward highway fund.....	3,000 00
Twelfth ward highway fund.....	2,500 00
Justice court fund.....	2,000 00
Superior court fund.....	1,800 00
John Ball park fund.....	14,000 00
Lincoln park fund.....	2,500 00
East Fulton park fund.....	1,250 00
Highland park fund.....	1,200 00
State and Washington street parks fund.....	250 00
East Bridge street, two parks, fund.....	150 00
Monument park fund.....	100 00
Pearl park fund.....	60 00
Ellsworth park fund.....	200 00
Lookout park fund.....	790 00
John Ball park, greenhouse fund.....	4,300 00
Crescent park fund.....	800 00
First sewer district fund.....	2,500 00
Second sewer district fund.....	1,500 00
Third sewer district fund.....	4,000 00
Installments and interest, John Ball park addition.....	5,565 00
Pension for firemen.....	285 00
Police court fund.....	1,000 00
Sinking fund.....	15,000 00
Health fund.....	12,000 00
Music fund, parks.....	1,000 00
Electric lighting fund.....	20,000 00
John Ball park improvement fund.....	5,000 00
Bridge street approach fund.....	5,000 00
<hr/>	
Interest city hall bonds.....	\$ 7,500 00
Special bonds.....	6,021 00
Electric light bonds.....	5,000 00
<hr/>	
18,591 00	
<hr/>	
\$ 399,271 00	

ASSESSMENTS FOR STREET IMPROVEMENTS.

Crescent avenue and Bostwick street.....	\$ 4,000 00
Campau street, from Louis street to Fulton streets.....	11,700 00
Crawford street, from Madison avenue to cemetery.....	2,930 00
College avenue, from Fulton street to Cherry street.....	5,100 00
Dickinson avenue, from Jefferson avenue to Madison avenue....	2,150 00
Elm avenue, from Division street to Buchanan street.....	3,920 00

Fulton street, from Jefferson avenue to Union street	11,400 00
Fuller street, from Wealthy avenue to Lake avenue	3,850 00
Fair street, from Jefferson avenue to Division street	3,595 00
Fitzhugh street, from Lake avenue to Hermitage street	2,880 00
Grandville avenue, Hall street to Clyde park avenue	10,500 00
Godfrey avenue, from G. R. & I. R. R. to S. Waterloo street	3,150 00
Halfey place from Division street to Jefferson avenue	2,420 00
Highland avenue, from Division street to Central avenue	1,450 00
Home avenue, from Division street to Jefferson avenue	3,650 00
Jefferson avenue, from Wealthy avenue to Fifth avenue	10,200 00
LaBelle avenue, from Division street to Ionia street	1,990 00
Marion street, from Butterworth avenue to R. R.	2,090 00
Mills street, from Madison avenue to College avenue	3,810 00
Ottawa street, from Lyon street to Bridge street	7,900 00
Ottawa street, from Bridge street to Fairbanks street	17,300 00
Prince street, from Madison avenue to Union street	4,800 00
Prospect street, from Fountain street to Fuller street	6,900 00
Pulmer avenue, from Canal street to Plainfield avenue	10,000 00
Rose street, from Division street to Buchanan street	3,900 00
Robey street, from Wealthy avenue to end of street	2,200 00
Spencer avenue, from Plainfield avenue to North avenue	5,000 00
Stewart avenue, from Division street to Buchanan street	4,000 00
Steele street, from Hall street to Stevens street	4,500 00
Third avenue, north arm	600 00
Thomas street, from Madison avenue to Union street	4,100 00
Turner street, from Bridge street to Seventh street	11,680 00
Turner street, from Seventh street to North street	23,500 00
Travis avenue, from Canal street to Watrous avenue	7,800 00
Tamarack street, from Walker avenue to Twelfth street	3,600 00
Tenth street, from Alpine avenue to Pine street	4,640 00
Watson street, from Lane avenue to John Ball park	7,000 00
Total	\$ 228,965 00

ASSESSMENT FOR CONSTRUCTION OF SEWERS.

Barker Place, from 50 feet south First street to Bridge alley ..	350 00
Campau street, from East Fulton street to Louis street ..	1,750 00
Colfax street and Colt avenue	890 00
Chestnut street, from Grandville avenue to Oakland avenue ..	710 00
Diamond and Fisher streets to Eureka avenue	950 00
Ethel avenue, from Wealthy avenue to Sherman street	1,300 00
Fulton street, from Lafayette street to Barclay street	870 00
Grand avenue and Lyon street	870 00
Halfey Place, from Division street to Cornwall avenue	280 00
Hamilton and Myrtle streets	2,550 00
Ionia street alley, from Trowbridge street to Fairbanks street ..	420 00
Marion street, from Butterworth avenue to railroad	330 00
Marion street, from Chatham to 145 feet south of Bridge street ..	400 00
Ottawa street, from Bridge street to Lyon street	1,120 00
Pine street, from W. Bridge street to First street	400 00
Robey street, from Wealthy avenue to terminus	460 00
Terrace avenue, from Logan street to 300 feet north	563 00
Twelfth street, from 100 feet west of Ionia street to Buchanan street	620 00

REPORTS OF MAYOR AND CLERK,

Taylor street sewer system.....	\$ 4,800 00
Travis avenue, from Colt avenue to Wartrous avenue.....	500 00
Turner and Myrtle streets.....	2,900 00
Total.....	\$ 23,005 00

ASSESSMENTS FOR STREET OPENINGS.

Bridge street, from bank to dock line.....	\$ 1,092 51
Buckeye street to Calkins avenue.....	1,000 00
Dolbee street to Bates street south.....	431 88
Sibley street, Valley avenue to west side ditch.....	1,181 90
Total.....	\$ 4,306 29

ASSESSMENTS FOR SIDEWALKS.

For term ending August 7, 1899.....	\$ 503 58
For term ending November 6, 1899.....	569 52
For term ending February 5, 1900	88 09
Total.....	\$ 1,161 19

RECAPITULATION.

Assessment for general purposes.....	\$ 399,271 00
Assessments for street improvements.....	928,965 00
Assessments for sewers.....	23,005 00
Assessments for street openings.....	4,306 29
Assessments for sidewalks.....	1,161 19
Total	\$ 656,708 48

RECEIPTS OF CITY CLERK'S OFFICE, APRIL 25, 1899, TO APRIL 23, 1900.

Quit claim deeds.....	\$ 5,780 54
Redemptions.....	6,044 87
Less paid to certificate holders to January 1, 1900 ...	1,457 86
	\$ 4,587 01
Marshal's sales.....	2,735 03
Licenses	10,959 50
Assessment rolls for street improvements.....	6,371 37
Sidewalks	1,146 09
Miscellaneous	656 84
Total	\$ 32,296 39

MISCELLANEOUS,

Total amount of warrants drawn against city depository since May 1, 1899.....	\$1,820,448 35
Amount bid by the city at City Marshal's and Treasurer's sales.....	13,952 09
Amount bid by private parties at same sales.....	3,741 82
Number of sales.....	13
Number of parcels sold to city.....	1,502
Number of parcels sold to private parties	318
	1,820

Number of parcels redeemed	879	
Number of parcels quit claimed.	480	
		<hr/>
Total number of parcels paid for.....		1,309
Number of parcels deeded to city.....		1,309
Number of tax deeds to city.....	38	320
Number of tax deeds to private persons.....	73	
Number of quit claim deeds.....	288	
Number of cemetery deeds	83	
		<hr/>
Total number of deeds issued.....		489
Deeds to city for street purposes	20	
Deeds to city for cemetery purposes....	15	
Deeds to city for park purposes.....	1	
		<hr/>
Total.....		36
Number of ordinances passed		21
Number of licenses issued—		
Dogs	2,913	
Saloons.....	153	
Drays and express.....	181	
Hacks.....	28	
Hucksters	68	
Hotels and restaurants.....	65	
Meat markets.....	126	
Meat wagons	21	
Milk	471	
Miscellaneous	335	
		<hr/>
Total.....		3,661
Streets improved, 1899-1900.....	6.08 miles	
Streets re-improved, 1899-1900.....	3.07 miles	
Sewers built, 1899-1900	3.52 miles	
Water mains laid.....	5.62 miles	
Total length of water mains	140.797 miles	
Hydrants set.....	50	
Total number of hydrants.....	1,322	

Respectfully submitted,

GEORGE R. PERRY, Mayor.

I. F. LAMOREAUX, City Clerk.

ANNUAL REPORT OF CITY TREASURER.

CITY TREASURER'S OFFICE, }
GRAND RAPIDS, MICH., April 24, 1900. }

*To the Honorable, the Mayor and Common Council of the
City of Grand Rapids:*

GENTLEMEN—I herewith submit to your honorable
body my report for the year ending April 19, 1900.

Respectfully submitted,

MARCUS A. FROST,
City Treasurer.

DR.

1900.		
April 19.	To balance. Kent County Savings Bank.....	\$ 498,820 01
	Fourth National Bank.....	2,918 06
	Cash on hand	1,170 19
	Total.....	\$ 502,908 26

CR.

1900.		
April 19.	By balance	\$ 501,780 30
	Unpaid checks not presented at the bank.....	1,127 87
	Total.....	\$ 502,908 36

KENT COUNTY SAVINGS BANK, }
GRAND RAPIDS, MICH., April 24, 1900. }

This is to certify that the City of Grand Rapids had
on deposit in this bank at the close of business April 19,
1900, four hundred ninety-eight thousand eight hundred
twenty dollars and one cent. This includes the one
hundred thousand dollar special deposit.

J. A. S. VERDIER,
Cashier.

FOURTH NATIONAL BANK,
 GRAND RAPIDS, MICH., April 24, 1900. }

M. A. Frost, City Treasurer, City:

DEAR SIR—I hereby certify that at the close of business April 19, 1900, according to our books your account had a credit balance of \$2,918.06.

Yours very truly,

WM. H. ANDERSON,

President.

LIST OF ORDERS NOT PRESENTED AT THE BANK FOR PAYMENT:

No. of Order.	Amount.
887	4 05
1,686	88 38
1,695	88 34
1,766	20 00
1,830	27 00
2,020	3 00
2,111	6 00
2,145	6 00
2,189	2 00
1,583	17 80
1,652	20 00
1,749	1 75
1,840	05
1,843	1 30
1,965	3 30
1,877	24 22
1,973	2 00
1,976	2 00
1,978	2 30
1,999	12 00
2,152	6 00
2,169	6 00
2,357	19 23
2,358	15 00
2,359	12 00
2,382	20 00
2,383	15 00
2,391	25 07
2,397	5 88
2,399	6 80
2,407	12 25
2,410	31 25
2,418	32 50
2,419	32 50

REPORT OF TREASURER,

2,421	40 00
2,422	50 00
2,437	25
2,440	4 30
2,456	12 00
2,465	66 00
2,469	49 00
2,471	7 92
2,472	20 99
2,473	52 86
2,480	12 52
2,486	20 95
2,491	9 00
2,519	52 69
2,521	23 70
2,522	28 85
2,527	12 30
2,536	24 50
1,785	6 25
1,994	12 00
2,017	3 00
2,396	10 00
2,415	15 00
2,441	24 64
2,512	2 50
2,538	85
2,468	5 75
Total	\$ 1,127 87

RECEIPTS AND DISBURSEMENTS FROM APRIL 18, 1899, to APRIL 19, 1900:

RECEIPTS.

1899.	
April 18, to balance	\$ 597,568 92
May receipts	53,100 94
June receipts	298,512 70
July receipts	184,653 61
August receipts	242,536 14
September receipts	55,483 34
October receipts	50,191 27
November receipts	46,713 55
December receipts	127,495 04
1900.	
January receipts	233,926 14
February receipts	65,755 49
March receipts	42,434 53
April receipts	19,654 16
Total receipts	\$1,418,456 91
	\$2,016,025 83

DISBURSEMENTS.

1899.	
May, by disbursements	\$ 241,521 06
June	99,157 29
July	110,848 34
August	124,074 32
September	96,431 69
October	82,326 59
November	123,166 50
December	141,884 78
1900.	
January	266,841 76
February	96,068 54
March	92,943 51
April	37,082 06
Total disbursements	\$1,514,245 44
April 19, 1900, by balance	501,780 39
	\$2,016,025 83

RECEIPTS AND DISBURSEMENTS OF THE VARIOUS FUNDS
FOR THE YEAR ENDING APRIL 19, 1900.

	Receipts.	Disburse- ments.
General	\$ 77,390 65	\$ 147,724 55
Contingent	79,265 98	50,133 67
Fire	1,568 06	118,835 52
Police	386 65	87,263 10
First ward highway	285 54	4,666 93
Second ward highway	368 95	6,629 47
Third ward highway	178 61	5,597 67
Fourth ward highway	1,085 65	6,489 83
Fifth ward highway	8 34	3,490 33
Sixth ward highway		3,199 94
Seventh ward highway		3,141 01
Eighth ward highway		1,882 26
Ninth ward highway		3,206 62
Tenth ward highway	198 40	3,530 98
Eleventh ward highway	21 00	3,299 76
Twelfth ward highway	3 50	2,698 44
First sewer district	67 00	2,721 01
Second sewer district	55 00	2,128 17
Third sewer district	55 00	3,446 26
Bridge	137 67	2,664 64
Public lighting	21 20	37,404 84
Library	1,456 65	1,431 85
Poor	146 82	15,648 60
Police Court	1,664 92	2,152 26
Superior Court	429 45	3,896 78
Justice Court	2,342 67	3,611 98
Park	2 25	5,202 73
John Ball park	459 78	18,854 68
Lincoln park	6 00	2,504 33

Water works interest.....		\$ 39,261 96
Water works.....	8,517 75	49,408 90
Water works income.....	126,904 76	54,421 01
Valley City cemetery.....	14,526 51	14,512 14
Greenwood cemetery.....	3,777 00	4,337 91
City Hall interest.....		7,500 00
Police and fire pension.....		249 96
Market.....	4,598 34	2,903 59
Electric lighting.....	4 48	125,023 52
John Ball park extension.....		4,841 67
Special bonds interest.....		6,021 00
Market bonds interest.....		3,007 00
Greenhouse.....	773 85	4,547 15
Electric light bonds interest.....		5,017 50
General taxes, 1899.....	602,822 70	259,956 61
General taxes, 1898.....	10,007 85	8,620 88
A. Campau park.....	4 00	4,727 92
Bridge street bridge approach.....		248 52
Health.....	2 50	4,634 85
Redemption on deposit.....	1,183 06	22 65
Board of Education.....	62 14	
South Waterloo street improvement.....	5,312 94	274 17
Ottawa street improvement, C. to F.....	2,704 54	7,853 13
Campau street improvement.....		420 90
Valley avenue improvement.....	930 21	203 20
Colt avenue improvement.....	1,216 13	513 06
Grove street improvement.....	996 28	543 25
Ives avenue sewer.....	140 53	
Worden street improvement.....	1,019 05	706 91
Livingston street improvement.....	2,414 51	2,955 75
Crescent avenue improvement.....	5,351 70	3,325 44
Luton court improvement.....	353 79	61 45
Fairbanks and Clinton streets sewer.....	54 00	
Grand avenue sewer.....	173 82	642 00
Robinson avenue improvement.....	1,464 15	394 46
Ives avenue improvement.....	598 07	518 93
Courtney street sewer.....	15 03	
Prince street sewer.....	31 75	4 00
Jefferson avenue improvement, H. to B.....	4,796 73	9,085 06
Caulfield avenue improvement.....	1,297 99	2,156 00
Oakes street improvement, E. to W.....	687 29	120 19
Grand avenue improvement.....	950 06	3,525 08
Butterworth avenue sewer.....	285 06	327 25
Thompson court improvement.....	292 36	367 30
Cherry street improvement.....	610 56	146 78
Gelock avenue and Dunham street sewer.....	196 35	447 65
Sweet street sewer.....	39 10	37 42
Barth street improvement.....	442 99	305 44
Hermitage street improvement.....	743 20	3,271 89
Sewer in block 6, Colt & Co.'s addition.....	31 35	38 33
La Belle avenue sewer.....	37 00	
Winsor place sewer.....	83 64	
North Union street improvement.....	1,345 71	1,590 10

Diamond street sewer system.....	125 10	93 00
Lyon street improvement	1,594 50	6,334 42
South Ionia street sewer	38 60	10 00
Euclid avenue alley opening	18 47	
Shawmut avenue sewer		13 70
Sheldon street sewer.....	190 17	184 25
Highland avenue opening	937 53	1,536 48
Street improvement bonds	205,230 15	109,250 00
Sweet street opening.....	1 42	
Godfrey avenue opening.....	787 37	753 84
Prince street improvement.....	3,970 31	4,680 19
East Fulton street improvement	2,268 56	2,251 93
Madison street improvement		600 45
Fuller street improvement	1,500 88	3,796 65
Jefferson avenue improvement, W. to F	8,985 25	18,723 49
Ottawa street improvement, F. to B.....	7,873 32	16,871 91
Jackson street improvement	260 00	1,136 48
Ethel avenue sewer.....	1,288 85	1,228 00
Spencer avenue improvement	2,066 89	4,363 76
Hailey place sewer	281 36	235 20
Buckeye street opening.....	966 00	1,000 00
Sibley street opening	1,189 53	1,181 90
Marion street sewer.	403 31	356 50
Hailey place improvement.....	1,085 77	2,391 61
Home avenue improvement, J. to D.....	2,123 39	3,413 45
Ottawa street improvement, L. to B.....	4 623 42	7,838 70
Thomas street improvement.....	1,438 78	4,030 85
Diamond and Fisher streets sewer.....	973 91	843 16
East Bridge street opening.....	1,706 33	1,692 51
Marion street sewer, railway to B.....	332 99	291 45
East Fulton street improvement.....	5,927 50	10,992 29
Fair street improvement.....	1,310 05	3,304 95
Watson street improvement	883 00	4,412 54
Turner street improvement, B. to S.....	4,926 25	10,062 46
Highland avenue improvement.....	297 49	1,391 33
Grandville avenue improvement.....	3,463 47	8,961 24
Palmer avenue improvement	4,016 04	7,370 50
Ottawa street sewer.....	1,126 77	1,147 40
Campau street improvement	9,014 71	5,043 73
LaBelle avenue improvement	581 61	1,577 51
Rose street improvement.....	1,307 84	3,176 75
Elm avenue improvement.....	1,192 59	3,670 11
Stewart avenue improvement	1,141 00	3,737 61
Grand avenue and Lyon street sewer.....	637 40	816 05
Turner and Myrtle streets sewer.....	2,942 52	2,822 59
Crescent avenue and Bostwick street improvement.....	1,187 53	3,701 24
Crawford street improvement.....	1,350 16	2,658 43
Dickinson avenue improvement	498 48	1,060 38
Twelfth avenue sewer.....	620 01	573 93
Hamilton and Myrtle streets sewer.....	2,410 90	1,912 91
Turner street improvement, S. to N.....	6,222 30	3,507 20
Tamarack street improvement.....	1,555 69	2,848 20
Robey street improvement.....	726 69	1,878 26

Fitzhugh street improvement	1,022 92	2,331 54
Steele avenue improvement	900 74	2,054 88
Robey street sewer	462 20	429 90
Barker Place sewer	352 42	300 75
North Ionia street alley sewer	320 33	362 00
Travis avenue sewer	450 93	439 13
Tenth street improvement	1,320 48	2,519 37
Chestnut street sewer	722 62	661 91
Mills street improvement	605 98	1,936 63
North Prospect street improvement	3,122 27	6,787 50
Travis avenue improvement		2,010 45
Dolbee street opening	420 60	431 88
Taylor and other streets sewer	4,528 26	4,168 19
Marion street improvement	1,551 82	1,384 51
Road roller	6,769 61	5,768 12
Colfax street and Colt avenue sewer	694 98	425 27
Godfrey avenue improvement	580 00	120 00
College avenue improvement	5,132 11	3,910 57
East Fulton street sewer	875 76	813 43
Terrace avenue sewer	519 83	392 89
Pine street sewer	404 61	337 58
Campau street sewer	1,673 47	1,359 26
Third avenue improvement	354 34	129 26
Sibley street improvement		637 50
North Prospect street improvement	203 56	
Cherry and Lake avenue improvement	608 81	
Valley avenue improvement	17 01	
East Leonard street improvement	156 53	
Ames street improvement	15 48	
North Colt avenue improvement	37 56	
South Ionia street improvement	106 05	
Plainfield avenue improvement, C. to R. R.	889 58	
North Ionia street improvement	696 07	
East Bridge street improvement, B. to S.	1,002 22	
Richard Terrace improvement	416 16	
East Bridge street improvement, C. to O ..	740 39	
Baxter street improvement, H. to E	312 10	
Elizabeth street improvement	18 66	
Eighth avenue improvement	270 45	
Third street improvement	9 60	
Home avenue improvement, D. to J.	537 33	
South Prospect street paving	1,241 18	
Diamond street improvement	22 02	
Gilbert street improvement	45 78	
Jefferson avenue improvement, C. to W	1,013 55	
Langdon street improvement	41 51	
Dayton street sewer	14 74	
Oakes street improvement	667 94	
Dennis street improvement	551 38	
Mechanic street improvement	1,154 11	
Butterworth avenue improvement	237 92	
Ethel avenue improvement	12 55	
Houseman street improvement	22 28	

Olive street improvement	\$ 18 95	
Winser place improvement	562 19	
Crosby street improvement	830 95	
Lake avenue improvement	4,082 41	
South Division street improvement	2,354 50	
Kalamazoo avenue improvement, B. to B	1,099 10	
Oakdale avenue improvement	60 15	
Paris avenue improvement	2,324 01	
Bates street improvement	2,262 49	
Plainfield avenue improvement, R. R. to Q	4,477 73	
Plainfield avenue improvement, Q. to K	2,913 73	
Euclid avenue improvement	534 33	
Baxter street improvement, H. to E	1,434 09	
South Diamond street improvement	632 82	
Madison avenue improvement	5,425 23	
Helen avenue improvement	326 06	
Kalamazoo avenue improvement, 5th to B	2,339 31	2 50
Madison street improvement	949 25	
	<u>\$1,418,456 91</u>	<u>\$1,514,945 44</u>
April 18, 1899, to balance	597,668 92	
By balance, April 19, 1900		501,780 39
	<u>\$2,016,025 83</u>	<u>\$2,016,025 83</u>

GENERAL FUND.

	Dr.	
1900.		
April 19, to disbursements	\$ 147,724 56	
to transfers	9,991 00	
to balance	17,692 50	
		<u>\$ 175,833 05</u>
	Cr.	
1900.		
April 18, 1899, by balance	\$ 25,815 83	
by receipts	77,890 65	
by transfers	72,131 57	
		<u>\$ 175,833 05</u>
April 19, 1900, by balance		\$ 17,222 50

CONTINGENT FUND.

	Dr.	
1900.		
April 19, to disbursements	\$ 50,133 67	
to transfers	108,896 95	
to balance	7,585 34	
		<u>\$ 161,617 96</u>
	Cr.	
1900.		
April 18, 1899, by balance	\$ 47,530 50	
by receipts	79,265 98	
by transfers	34,821 43	
		<u>\$ 161,617 96</u>
April 19, 1900, by balance		\$ 7,585 34

REPORT OF TREASURER, FIRE DEPARTMENT FUND.

Dr.

1900.		
April 19, to disbursements	\$ 118,825 52	
to balance	11,151 40	
		\$ 129,976 92

Cr.

1900.		
April 18, 1899, by balance	\$ 18,408 96	
by receipts	1,568 06	
by budget	105,000 00	
by transfers	5,000 00	
		\$ 129,976 92
April 19, 1900, by balance		\$ 11,151 40

POLICE DEPARTMENT FUND.

Dr.

1900.		
April 19, to disbursements	\$ 87,963 10	
to transfers	50 00	
to balance	5,084 27	
		\$ 92,997 37

Cr.

1900.		
April 18, 1899, by balance	\$ 17,004 67	
by receipts	886 55	
by budget	75,000 00	
by transfers	6 05	
		\$ 92,997 37
April 19, 1900, by balance		\$ 5,084 27

FIRST WARD HIGHWAY FUND.

Dr.

1900.		
April 19, to disbursements	\$ 4,666 93	
to transfers	1,500 00	
to balance	528 50	
		\$ 6,695 43

Cr.

1900.		
April 18, 1899, by balance	\$ 843 39	
by receipts	285 54	
by budget	5,000 00	
by transfers	566 50	
		\$ 6,695 43
April 19, 1900, by balance		\$ 528 50

SECOND WARD HIGHWAY FUND.

Dr.

1900.		
April 19, to disbursements.....	\$	6,689 47
to balance		658 76
		<u>7,348 23</u>
	\$	7,348 23

Cr.

1900.		
April 18, 1899, by balance.....	\$	1,848 68
by receipts		368 95
by budget.....		5,000 00
by transfers		70 60
		<u>7,288 23</u>
	\$	7,288 23
April 19, 1900, by balance.....	\$	658 76

THIRD WARD HIGHWAY FUND.

Dr.

1900.		
April 19, to disbursements.....	\$	5,597 67
to transfers		71 60
to balance		739 26
		<u>6,408 53</u>
	\$	6,408 53

Cr.

1900.		
April 18, 1899, by balance.....	\$	2,163 42
by receipts		178 61
by budget.....		4,000 00
by transfers		66 50
		<u>6,408 53</u>
	\$	6,408 53
April 19, 1900, by balance.....	\$	739 26

FOURTH WARD HIGHWAY FUND.

Dr.

1900.		
April 19, to disbursements.....	\$	6,489 83
to transfers		1,400 00
to balance.....		1,072 33
		<u>8,962 16</u>
	\$	8,962 16

Cr.

1900.		
April 18, 1899, by balance	\$	470 41
by receipts		1,085 65
by budget		6,000 00
by transfers		1,406 10
		<u>8,962 16</u>
	\$	8,962 16
April 19, 1900, by balance.....	\$	1,072 33

REPORT OF TREASURER,

FIFTH WARD HIGHWAY FUND.

Dr.

1900.		
April 19, to disbursements.....	\$	3,490 33
to transfers.....		206 10
to balance.....		781 72
		<hr/>
	\$	4,478 15

Cr.

1900.		
April 18, 1899, by balance.....	\$	1,269 81
by receipts.....		8 24
by budget.....		3,000 00
by transfers.....		200 00
		<hr/>
	\$	4,478 15
April 19, 1900, by balance.....	\$	781 72

SIXTH WARD HIGHWAY FUND.

Dr.

1900.		
April 19, to disbursements.....	\$	3,199 94
to transfers.....		500 00
to balance.....		141 39
		<hr/>
	\$	3,841 33

Cr.

1900.		
April 18, 1899, by balance.....	\$	252 36
by budget ..		3,000 00
by transfers.....		588 97
		<hr/>
	\$	3,841 33
April 19, 1900, by balance.....	\$	141 39

SEVENTH WARD HIGHWAY FUND.

Dr.

1900.		
April 19, to disbursements	\$	3,141 01
to transfers.....		500 00
to balance ..		113 25
		<hr/>
	\$	3,754 26

Cr.

1900.		
April 18, 1899, by balance.....	\$	671 13
by budget.....		2,500 00
by transfers		583 13
		<hr/>
	\$	3,754 26
April 19, 1900, by balance.....	\$	113 25

CITY OF GRAND RAPIDS, MICH.

69

EIGHTH WARD HIGHWAY FUND.

Dr.

April 19, 1900, to disbursements.....	\$ 1,882 26
to transfers.....	705 85
to balance.....	208 83

\$ 2,791 94

Cr.

1900.	
April 18, 1899, by balance.....	\$ 908 81
by budget ..	2,000 00
by transfers ..	583 13

\$ 2,791 94

April 19, 1900, by balance.....	\$ 208 83
---------------------------------	-----------

NINTH WARD HIGHWAY FUND.

Dr.

1900	
April 19, to disbursements.....	\$ 3,206 62
to transfers.....	400 00
to balance	483 19

\$ 4,089 81

Cr.

1900.	
April 18, 1899, by balance.....	\$ 816 69
by budget.....	3,000 00
by transfers.....	483 12

\$ 4,089 81

April 19, 1900, by balance	\$ 483 19
----------------------------------	-----------

TENTH WARD HIGHWAY FUND.

Dr.

1900.	
April 19, to disbursements.....	\$ 3,530 98
to transfers	300 00
to balance	341 31

\$ 4,172 29

Cr.

1900.	
April 18, 1899, by balance.....	\$ 607 89
by receipts	188 40
by budget.....	3,000 00
by transfers	386 50

\$ 4,172 29

April 19, 1900, by balance	\$ 341 31
----------------------------------	-----------

REPORT OF TREASURER.

ELEVENTH WARD HIGHWAY FUND.

Dr.

1900.		
April 19, to disbursements.....	\$	3,399 76
to transfers		1,000 00
to balance.....		44 30
		<hr/>
	\$	4,344 06

Cr.

1900.		
April 18, 1899, by balance.....	\$	56 56
by receipts		31 00
by budget.....		3,000 00
by transfers.....		1,266 50
		<hr/>
	\$	4,344 06
April 19, 1900, by balance.....	\$	44 30

TWELFTH WARD HIGHWAY FUND.

Dr.

1900.		
April 19, to disbursements.....	\$	2,698 44
to transfers.....		700 00
to balance.....		171 25
		<hr/>
	\$	3,569 69

Cr.

1900.		
April 18, 1899, by balance.....	\$	99 69
by receipts.....		3 50
by budget		2,500 00
by transfers.....		966 50
		<hr/>
	\$	3,569 69
April 19, 1900, by balance.....	\$	171 25

FIRST SEWER DISTRICT FUND.

Dr.

1900.		
April 19, to disbursements.....	\$	2,791 01
to balance		462 09
		<hr/>
	\$	3,183 10

Cr.

1900.		
April 18, 1899, by balance.....	\$	616 10
by receipts.....		67 00
by budget.....		2,500 00
		<hr/>
	\$	3,183 10
April 19, 1900, by balance.....	\$	462 09

SECOND SEWER DISTRICT FUND.

Dr.

1900.		
April 19, to disbursements.....	\$	2,198 17
to transfers.....		500 00
to balance.....		104 98
		<hr/>
	\$	2,733 09

Cr.

1900.		
April 18, 1899, by balance.....	\$	878 09
by receipts.....		55 00
by budget.....		1,500 00
by transfers.....		900 00
		<hr/>
	\$	2,733 09
April 19, 1900, by balance.....	\$	104 92

THIRD SEWER DISTRICT FUND.

Dr.

1900.		
April 19, to disbursements.....	\$	3,446 26
to transfers.....		2,150 00
to balance.....		732 11
		<hr/>
	\$	6,328 37

Cr.

1900.		
April 18, 1899, by balance.....	\$	129 37
by receipts.....		55 00
by budget.....		4,000 00
by transfers.....		2,151 00
		<hr/>
	\$	6,328 37
April 19, 1900, by balance.....	\$	732 11

BRIDGE FUND.

Dr.

1900.		
April 19, to disbursements.....	\$	2,664 64
to transfers.....		1,700 00
to balance.....		1,345 82
		<hr/>
	\$	5,710 46

Cr.

1900.		
April 18, 1899, by balance.....	\$	379 79
by receipts.....		137 67
by budget.....		3,500 00
by transfers.....		1,700 00
		<hr/>
	\$	5,710 46
April 19, 1900, by balance.....	\$	1,345 82

REPORT OF TREASURER,

PUBLIC LIGHTING FUND.

Dr.

1900.		
April 19, to disbursements.....	\$	37,404 84
to transfers.....		6,000 00
to balance.....		4,508 35
		<u>\$ 47,913 19</u>

Cr.

1900.		
April 18, 1899, by balance.....	\$	12,891 99
by receipts.....		21 20
by budget.....		35,000 00
		<u>\$ 47,913 19</u>
April 19, 1900, by balance.....	\$	4 508 35

LIBRARY FUND.

Dr.

1900.		
April 19, to disbursements.....	\$	1,431 85
to balance.....		71 80
		<u>\$ 1,503 65</u>

Cr.

1900.		
April 18, 1899, by balance.....	\$	47 00
by receipts.....		1,456 65
		<u>\$ 1,503 65</u>
April 19, 1900, by balance.....	\$	71 80

POOR FUND.

Dr.

1900.		
April 19, to disbursements.....	\$	15,648 80
to balance.....		2,394 29
		<u>\$ 18,042 89</u>

Cr.

1900.		
April 18, 1899, by balance.....	\$	3,396 07
by receipts.....		146 82
by budget.....		10,000 00
by transfers.....		4,500 00
		<u>\$ 18,042 89</u>
April 19, 1900, by balance.....	\$	2,394 29

POLICE COURT FUND.

Dr.

1900.		
April 18, 1899, to balance	\$	107 28
to disbursements		2,182 96
to transfers		583 98
to balance		451 08
		<hr/>
	\$	3,294 55

Cr.

1900.		
April 18, 1899, by receipts	\$	1,004 92
by budget		1,000 00
by transfers		629 63
		<hr/>
	\$	3,294 55
April 19, 1900, by balance ..	\$	451 08

SUPERIOR COURT FUND.

Dr.

1900.		
April 19, to disbursements	\$	3,896 78
to balance		65 96
		<hr/>
	\$	3,962 74

Cr.

1900.		
April 18, 1899, by balance	\$	1,783 29
by receipts		429 45
by budget		1,800 00
		<hr/>
	\$	3,962 74
April 19, 1900, by balance	\$	65 96

JUSTICE COURT FUND.

Dr.

1900.		
April 19, to disbursements	\$	3,611 98
to transfers		12 00
to balance		2,837 02
		<hr/>
	\$	6,461 00

Cr.

1900.		
April 18, 1899, by balance	\$	2,118 33
by budget		2,000 00
by receipts		2,342 67
		<hr/>
	\$	6,461 00
April 19, 1900, by balance	\$	2,837 02

REPORT OF TREASURER,

PARK FUND.

Dr.		
1900.		
April 19, to disbursements	\$	5,209 73
to transfers		1,308 00
to balance		205 63
		<hr/>
	\$	6,718 36
Cr.		
1900.		
April 18, 1899, by balance	\$	921 66
by receipts		2 25
by budget		4,800 00
by transfers		994 45
		<hr/>
	\$	6,718 36
April 19, 1900, by balance	\$	205 63

JOHN BALL PARK FUND.

Dr.		
1900.		
April 19, to disbursements	\$	18,884 68
to transfers		8,000 00
to balance		540 54
		<hr/>
	\$	27,425 22
Cr.		
1900.		
April 18, 1899, by balance	\$	3,195 50
by budget		20,000 00
by receipts		459 78
by transfers		3,769 94
		<hr/>
	\$	27,425 22
April 19, 1900, by balance	\$	540 54

LINCOLN PARK FUND.

Dr.		
1900.		
April 19, to disbursements	\$	2,594 33
to transfers		2,000 00
to balance		116 40
		<hr/>
	\$	4,710 73
Cr.		
1900.		
April 18, 1899, by balance	\$	111 71
by receipts		6 00
by budget		2,500 00
by transfers		2,093 03
		<hr/>
	\$	4,710 73
April 19, 1900, by balance	\$	116 40

WATER WORKS INTEREST FUND.

Dr.

1900.		
April 19, to disbursements	\$ 39,261 96	
		\$ 39,261 96

Cr.

1900.		
April 19, by transfers	\$ 39,261 96	
		\$ 39,261 96

WATER WORKS FUND.

Dr.

1900.		
April 19, to disbursements	\$ 49,408 90	
to transfers	8,000 00	
to balance	2,725 81	
		\$ 60,134 71

Cr.

1900.		
April 18, 1899, by balance	\$ 3,606 41	
by receipts	8,517 76	
by transfers	48,010 55	
		\$ 60,134 71
April 19, 1900, by balance		\$ 2,725 81

WATER WORKS INCOME FUND.

Dr.

1900.		
April 19, to disbursements	\$ 54,421 01	
to transfers	79,272 51	
to balance	2,804 50	
		\$ 136,498 02

Cr.

1900.		
April 18, 1899, by balance	\$ 9,533 26	
by receipts	126,964 76	
		\$ 136,498 02
April 19, 1900, by balance		\$ 2,804 50

HOSPITAL FUND.

Dr.

1900.		
April 19, to transfers	\$ 3,526 50	
		\$ 3,526 50

Cr.

1900.		
April 18, 1899, by balance	\$ 3,526 50	
		\$ 3,526 50

REPORT OF TREASURER,

VALLEY CITY CEMETERY FUND.

Dr.		
1900.		
April 19, to disbursements.....	\$ 14,519 14	
to balance.....	4,597 96	
		\$ 19,110 10

Cr.		
1900.		
April 18, 1899, by balance.....	\$ 4,583 59	
by receipts.....	14,526 51	
		\$ 19,110 10
April 19, 1900, by balance		\$ 4,597 96

GREENWOOD CEMETERY FUND.

Dr.		
1900.		
April 19, to disbursements.....	\$ 4,337 91	
to balance	2,281 81	
		\$ 6,619 72
Cr.		
1900.		
April 18, 1899, by balance.....	\$ 2,842 72	
by receipts	3,777 00	
		\$ 6,619 72
April 19, 1900 by balance.....		\$ 2,281 81

CITY HALL INTEREST FUND.

Dr.		
1900.		
April 19, to disbursements.....	\$ 7,500 00	
to balance.....	3,750 00	
		\$ 11,250 00
Cr.		
April 18, 1899, by balance	\$ 3,750 00	
by budget.....	7,500 00	
		\$ 11,250 00
April 19, 1900, by balance.. ..		\$ 3,750 00

WEALTHY AVENUE BRIDGE FUND.

Dr.		
1900.		
April 19, to balance.....	\$ 13,698 75	
		\$ 13,698 75
Cr.		
April 18, 1899, by balance.....	\$ 13,698 75	
		\$ 13,698 75

POLICE AND FIRE PENSION FUND.

Dr.

1900.		
April 19, to disbursements.....	\$	242 96
to balance.....		127 15
		<u>370 11</u>

Cr.

1900.		
April 18, 1899, by balance ..	\$	99 11
by budget.....		285 00
		<u>384 11</u>
April 19, 1900, by balance.....	\$	197 15

MARKET FUND.

Dr.

1900.		
April 19, to disbursements...	\$	2,903 59
to transfers.....		3,000 00
to balance.....		8,580 94
		<u>14,484 53</u>

Cr.

1900.		
April 18, 1899, by balance ..	\$	9,891 19
by receipts.....		4,593 34
		<u>14,484 53</u>
April 19, 1900, by balance.....	\$	8,580 94

SINKING FUND.

Dr.

1900.		
April 19, to balance	\$	136,175 73
		<u>136,175 73</u>

Cr.

1900.		
April 18, 1899, by balance.....	\$	116,175 73
by street improvement bonds		5,000 00
by budget		15,000 00
		<u>136,175 73</u>
April 19, 1900, by balance.....	\$	136,175 73

ELECTRIC LIGHTING FUND.

Dr.

1900.		
April 19, to disbursements.....	\$	125,023 52
to balance		591 11
		<u>125,614 63</u>

REPORT OF TREASURER,

		Cr.	
1900.			
April 18, 1899, by balance.....	\$	73,694 98	
by receipts.....		4 48	
by budget.....		20,000 00	
by transfers		31,915 17	
			\$ 125,614 63
April 19, 1900, by balance.....	\$		591 11

JOHN BALL PARK EXTENSION FUND.

		Dr.	
1900.			
April 19, to disbursements	\$	4,841 67	
to balance.....		3,179 12	
			\$ 8,020 79
		Cr.	
1900.			
April 18, 1899, by balance....	\$	2,455 79	
by budget.....		5,565 00	
			\$ 8,020 79
April 19, 1900, by balance	\$		3,179 12

SPECIAL BONDS INTEREST FUND.

		Dr.	
1900.			
April 19, to disbursements	\$	6,021 00	
to balance		3,010 50	
			\$ 9,031 50
		Cr.	
1900.			
April 18, 1899, by balance....	\$	3,010 50	
by budget.....		6,021 00	
			\$ 9,031 50
April 19, 1900, by balance	\$		3,010 50

MARKET BONDS INTEREST FUND.

		Dr.	
1900.			
April 19, to disbursements.....	\$	3,007 00	
to balance.....		1,489 50	
			\$ 4,496 50
		Cr.	
1900.			
April 18, 1899, by balance.....	\$	1,496 50	
by market.....		3,000 00	
			\$ 4,496 50
April 19, 1900, by balance.....	\$		1,489 50

GARBAGE BURNER FUND.

Dr.

1900.		
April 18 1899, to balance	\$	7 21
		<hr/>
	\$	7 21

Cr.

1900.		
April 19, by general	\$	7 21
		<hr/>
	\$	7 21

GREENHOUSE FUND.

Dr.

1900.		
April 19, to disbursements	\$	4,547 15
to transfers		1,579 60
to balance		180 88
		<hr/>
	\$	6,307 63

Cr.

1900.		
April 18, 1899, by balance	\$	733 78
by budget		4,300 00
by receipts		773 86
by transfers		500 00
		<hr/>
	\$	6,307 63
April 19, 1900, by balance	\$	180 88

ELECTRIC LIGHT BONDS INTEREST FUND.

Dr.

1900.		
April 19, to disbursements	\$	5,017 50
to balance		2,473 75
		<hr/>
	\$	7 491 25

Cr.

1900.		
April 18, 1899, by balance	\$	2,491 25
by budget		5,000 00
		<hr/>
	\$	7,491 25
April 19, 1900, by balance	\$	2,473 75

ENGINE HOUSE NO. 10 FUND.

Dr.

1900.		
April 19, to fire department	\$	5,000 00
		<hr/>
	\$	5,000 00

Cr.

1900.		
April 18, 1899, by balance	\$	5,000 00
		<hr/>
	\$	5 000 00

REPORT OF TREASURER,

GENERAL TAX, 1898, FUND.

Dr.

1900.		
April 19, to Board of Education	\$ 8,620 88	
to general fund.....	10,007 85	
		\$ 18,628 73

Cr.

1900.		
April 18, 1899, by balance.....	\$ 8,620 88	
by receipts	10,007 85	
		\$ 18,628 73

GENERAL TAX, 1899, FUND.

Dr.

1900.		
April 19, to Board of Education	\$ 259,946 74	
to refund.....	9 87	
to transfers.....	402,866 09	
		\$ 662,822 70

Cr.

1900.		
April 19, by receipts.....	\$ 662,822 70	
		\$ 662,822 70

A. CAMPAU PARK FUND.

Dr.

1900.		
April 19, to disbursements.....	\$ 4,727 92	
to balance	210 78	
		\$ 4,938 70

Cr.

1900.		
April 19, by receipts.....	\$ 4 00	
by transfers	4,934 70	
		\$ 4,938 70
April 19, 1900, by balance.....		\$ 210 78

BRIDGE STREET BRIDGE APPROACH FUND.

Dr.

1900.		
April 19, to disbursements	\$ 248 53	
to balance	4,751 48	
		\$ 5,000 00

Cr.

1900.		
April 19, by budget.....	\$ 5,000 00	
		\$ 5,000 00
April 19, 1900, by balance.....		\$ 4,751 48

HEALTH FUND.

Dr.

1900.		
April 19, to disbursements	\$	4,638 85
to transfers.		5,971 85
to balance		5,449 52
		<u>\$ 16,060 22</u>

Cr.

1900.		
April 19, by receipts	\$	2 50
by budget		19,000 00
by transfers		4,067 72
		<u>\$ 16,060 22</u>
April 19, 1900, by balance	\$	5,449 52

REDEMPTION ON DEPOSIT FUND.

Dr.

1900.		
April 19, to disbursements	\$	32 65
to transfers		1,135 77
to balance		94 64
		<u>\$ 1,183 06</u>

Cr.

1900.		
April 19, by receipts	\$	1,183 06
		<u>\$ 1,183 06</u>
April 19, 1900, by balance	\$	24 64

BOARD OF EDUCATION FUND.

Dr.

1900.		
April 19, to balance	\$	62 14
		<u>\$ 62 14</u>

Cr.

1900.		
April 19, by receipts	\$	62 14
		<u>\$ 62 14</u>
April 19, 1900, by balance	\$	62 14

STREET IMPROVEMENT BONDS FUND.

Dr.

1900.		
April 19, to disbursements	\$	109 250 00
to transfers.		210,758 41
to balance		235 592 77
		<u>\$ 555,601 18</u>

REPORT OF TREASURER,

Cr.

1900.

April 18, 1899, by balance.....	£ 185,534 67	
by sale of bonds.....	205,230 15	
by transfers.....	164,836 36	
		£ 555,601 18
April 19, 1900, by balance.....		£ 235,592 77

CAMPAU STREET IMPROVEMENT FUND.

Dr.

1900.

April 19, to disbursements.....	£ 5,043 73	
to balance	4,570 98	
		£ 9,614 71

Cr.

1900.

April 19, by receipts.....	£ 9,614 71	
April 19, 1900, by balance.....		£ 4,570 98

HAMILTON AND MYRTLE STREETS SEWER FUND.

Dr.

1900.

April 19, to disbursements.	£ 1,912 91	
to general.....	107 39	
to balance	600 00	
		£ 2,620 30

Cr.

1900.

April 19, by receipts.	£ 2,410 00	
by general	209 40	
		£ 2,620 30
April 19, 1900, by balance.....		£ 600 00

MARION STREET IMPROVEMENT FUND.

Dr.

1900.

April 19, to disbursements.....	£ 1,384 51	
to balance	167 31	
		£ 1,551 82

Cr.

1900.

April 19, by receipts.....	£ 1,551 82	
April 19, 1900, by balance.		£ 167 31

ROAD ROLLER FUND.

Dr.

1900.			
April 19,	to disbursements.....	\$	5,768 14
	to balance		1,967 17
			<u>\$ 7,735 35</u>

Cr.

1900.			
April 18,	by balance.....	\$	115 74
	by receipts		6,769 61
	by transfers		840 00
			<u>\$ 7,735 35</u>
April 19, 1900,	by balance	\$	1,967 17

COLFAX STREET AND COIT AVENUE SEWER FUND.

Dr.

1900.			
April 19,	to disbursements.....	\$	425 27
	to balance		269 71
			<u>\$ 694 98</u>

Cr.

1900.			
April 19,	by receipts.....	\$	694 98
			<u>\$ 694 98</u>
April 19 1900,	by balance	\$	269 71

COLLEGE AVENUE IMPROVEMENT FUND.

Dr.

1900.			
April 19,	to disbursements	\$	3,910 57
	to balance		1,221 54
			<u>\$ 5,132 11</u>

Cr.

1900.			
April 19,	by receipts.....	\$	5,132 11
			<u>\$ 5,132 11</u>
April 19, 1900,	by balance	\$	1,221 54

TERRACE AVENUE SEWER FUND.

Dr.

1900.			
April 19,	to disbursements.....	\$	392 89
	to balance		126 94
			<u>\$ 519 83</u>

REPORT OF TREASURER,

Cr.

1900		
April 19, by receipts.....	\$	519 83
		<u>\$ 519 83</u>
April 19, 1900, by balance	\$	196 94

CAMPAU STREET SEWER FUND.

Dr.

1900.		
April 19, to disbursements.....	\$	1,359 26
to balance		<u>314 21</u>
	\$	1,673 47

Cr.

1900.		
April 19, by receipts	\$	1,673 47
		<u>\$ 1,673 47</u>
April 19, 1900, by balance	\$	314 21

THIRD AVENUE IMPROVEMENT FUND.

Dr.

1900.		
April 19, to disbursements ..	\$	199 26
to balance		<u>225 08</u>
	\$	354 34

Cr.

1900.		
April 19, by receipts	\$	354 34
		<u>\$ 654 34</u>
April 19, 1900, by balance.....	\$	225 08.

BALANCES.

Cr.

General.....	\$	17,632 50
Contingent.....		7,585 34
Fire		11,151 40
Police.....		5,084 27
First Ward highway		528 50
Second Ward highway...		658 76
Third Ward highway		739 26
Fourth Ward highway		1,072 38
Fifth Ward highway		781 72
Sixth Ward highway		141 39
Seventh Ward highway		113 25
Eighth Ward highway		203 83
Ninth Ward highway....		493 19
Tenth Ward highway.....		341 31
Eleventh Ward highway		44 30

Twelfth Ward highway.....	\$ 171 86
First sewer district	462 09
Second sewer district.....	104 92
Third sewer district.....	732 11
Bridge	1,345 83
Public lighting.....	4,508 35
Library	71 80
Poor	2,394 29
Police Court	451 08
Superior Court.....	65 96
Justice Court	2,637 02
Park.....	206 63
John Ball Park.....	540 64
Lincoln Park.....	116 40
Water works.....	2,725 81
Water works income.....	2,804 50
Valley City cemetery.....	4,597 96
Greenwood cemetery.....	2,281 81
City Hall interest.	3,750 00
Wealthy avenue bridge	13,698 75
Police and Fire pension.....	127 15
Market.....	8,580 94
Sinking	136,175 73
Electric lighting.....	591 11
John Ball Park extension.....	3,179 12
Special bonds interest	3,010 50
Market bonds interest.....	1,429 50
Greenhouse.....	180 88
Electric light bonds interest	2,473 75
A. Campau Park.....	210 78
Bridge street bridge approach	4,751 48
Health.....	5,449 52
Redemption on deposit	24 64
Board of Education	62 14
Street improvement bonds	233,532 77
Campau street improvement	4,570 98
Hamilton and Myrtle streets sewer	500 00
Marion street improvement.....	167 31
Road roller	1,957 17
Colfax street and Colt avenue sewer	269 71
College avenue improvement.....	1,291 54
Terrace avenue sewer.....	126 94
Campau street sewer	314 21
Third avenue improvement.....	225 08
<hr/>	
	\$ 501,780 39
Dr.	
Kent County Savings Bank.....	\$ 498,830 01
Cash on hand.....	1,170 19
Unpaid orders.....	1,780 19
<hr/>	
	\$ 501,780 39

Respectfully submitted,

MARCUS A. FROST,

City Treasurer.

ANNUAL REPORT OF CITY COMPTROLLER.

OFFICE OF CITY COMPTROLLER, }
GRAND RAPIDS, MICH., April 24, 1900. }

*To the Honorable, the Mayor and Common Council of the
City of Grand Rapids:*

GENTLEMEN—I herewith respectfully submit my seventh annual report as comptroller of the city of Grand Rapids, covering a period from April 13, 1899, to April 19, 1900.

This report includes a detailed statement of the cost of maintaining each department of the city; a statement of our bonded debt, compared with 1898-1899; a complete re-inventory of municipal property, both personal and real; a detailed statement of the moneys expended in the special improvements during the year; a statement of quit claim deeds issued during the year, and a report of the tax titles owned by the city.

During the past year we have been very successful in the collection of the delinquent taxes, having collected this year, \$4,727.87, issuing from this department 285 quit claim deeds—as compared with 244 deeds issued during 1898-1899. Of the unpaid city and highway tax of 1896 there were reported to this department 492 tax titles; of the unpaid taxes of 1897 there were reported to this department 521 certificates; of the unpaid taxes of 1898 there were reported to this department 520 certificates, and there will probably reach us of the unpaid taxes of 1899 about the same number as for 1898. This

branch of the work we have been able to continue without additional clerical assistance.

The total amount of the city and highway rolls turned over to the City Treasurer for collection for 1898 was \$386,159.59; of this there was returned as unpaid \$6,996.07. The total amount of the city and highway rolls turned over to the City Treasurer for 1899 was \$399,271, of which there was returned as uncollected \$6,115.64, the proportionate amount of collections being about the same for both years.

The bonded debt one year ago was \$1,997,500. Of this there was paid \$90,000 street improvement bonds and \$20,500 of the school debt. We issued \$200,000 worth of street improvement bonds, which makes the net bonded debt to date \$2,087,000.

During the past year we have successfully introduced a new system of accounting in this department, which now makes the Comptroller's office a complete source of information for the collections as well as the disbursements of the city's moneys. The new system has been in force since February 1st, and, as far as this department is concerned, is working smoothly and satisfactorily. The system of disbursements has not been changed, as the expert employed by the city, after due consideration, concluded that the system employed and inaugurated by myself answers all purposes and was up to date.

My annual report this year also contains comparative tables of the expenditures and receipts of the city for the past two years, and the amount of taxes collected by the City Treasurer, and the amounts reported as uncollected by him, both personal and real, of the city and highway tax rolls; also tables showing the amount of the rolls charged to the City Treasurer for

collection of the state, county and school taxes, and the amounts reported by him to the County Treasurer; and the amounts charged to the Board of Public Works for water rates and collected by it.

I again recommend to your honorable body that an effort be made during the coming year to amend the charter so as to provide for a sinking fund commission, to be composed of the mayor, treasurer, clerk, comptroller and chairman of the committee on ways and means, who will have full power to invest the sinking fund to the best interests of the city.

I also recommend to your honorable body that a board of estimates be appointed, to be composed of the mayor, comptroller and chairman of the ways and means committee, whose duty it shall be, after consulting with the heads of the departments, to prepare in the month of April of each year a budget to be submitted to the committee on ways and means on or before the first Monday of May in each year.

Respectfully submitted,

LEO A. CARO,
City Comptroller.

OFFICE OF THE CITY COMPTROLLER.

*To the Honorable, the Mayor and Common Council of the
City of Grand Rapids:*

GENTLEMEN—The following is a statement of the amount of tax titles held by the city of Grand Rapids against various pieces of property in said city, which have been sold for the non-payment of special improvement taxes, sidewalk and nuisance taxes and the city and highway taxes of 1896-1897 and 1898 as per Comptroller's records, April 19th, 1900:

Number of certificates for special improvements for which the city holds deeds.....	1,346	
Face value of same.....		\$ 39,360 58
City and highway taxes of 1896. No certificates.....	241	
Face value of same.....		1,068 31
City and highway taxes of 1897. No certificates.....	293	
Face value of same.....		1,178 91
City and highway taxes of 1898. No certificates.....	418	
Face value of same.....		1,572 43
Totals.....	2,298	\$ 43,200 23
Number of uncollectable certificates.....	1,151	
Face value of same.....		\$ 37,103 59
City and highway taxes of 1896 uncollectable.....	175	
Face value of same.....		931 32
City and highway taxes of 1897 uncollectable.....	171	
Face value of same.....		865 89
City and highway taxes of 1898 uncollectable.....	175	
Face value of same.....		619 92
Totals.....	1,073	\$ 39,520 73

RECAPITULATION.

Total number and value of certificates.....	2,298	\$ 43,200 23
Total number and value of certificates uncollectable.....	1,073	39,520 72
Number and value of collectable certificates.....	625	\$ 3,679 51

Respectfully submitted,

LEO. A. CARO,
City Comptroller.

E. F. STACE,
Tax Title Clerk.

REPORT OF COMPTROLLER,

City Depository.

Dr.

To balance, April 18, 1899	£ 581,517 74
To cash deposited	1,431,113 91

£2,012,631 55

Cr.

By warrants	£1,513,811 54
By balance, April 19, 1900	498,820 01

£2,012,631 55

General Fund.

Dr.

To Board of Education	£ 23,975 12
To transfers	9,314 30
To disbursements	119,177 10
To balance, April 19, 1900	17,070 72

£ 168,827 24

Cr.

By balance, April 18, 1899	£ 25,308 87
By appropriation (1899)	10,007 85
By appropriation (1899)	11,506 09
By transfers	33,399 01
By licenses	11,235 75
By redemptions	5,462 97
By quit claims	5,996 70
By sidewalks	2,156 63
By general tax	5,319 14
By County Treasurer	23,275 12
By County Treasurer	2,160 54
By interest	16,957 47
By sundries	4,387 33
By redemptions 1899 tax	1,135 77

£ 168,837 24

General Fund.

DISBURSEMENTS IN DETAIL.

Common Council	£ 15,954 62
Printing and advertising	1,607 13
Interest on orders	99 28
Board of prisoners	2 463 50
Street openings	96 30
Elections	3,911 39
Superior Court Stenographer	1,999 92
Comptroller	5,385 97
Clerk	7,304 04
Treasurer	6,780 02
Tax Department	6,724 70
City attorney	5,805 08
Marshal	11 907 75

Board of Health.....	\$ 2,370 67
Board of Public Works.....	13,437 02
Board of Assessors.....	5,091 82
City Hall.....	11,434 6
Street sweeper and repairs.....	829 39
Street signs.....	4,961 69
Sprinkling wagon.....	60 00
Milk inspector.....	1,620 84
Building inspector.....	949 60
Damages.....	908 17
Recording Deeds.....	43 10
Ottawa street assessment.....	710 00
Annual reports and manuals.....	1,171 59
Approach and walks to No. 6 Engine House.....	552 80
Miscellaneous taxes.....	40 23
Hoskins Park.....	43 50
Expert.....	750 00
Bonds.....	65 00
Maps.....	60 00
Rebate excess of tax.....	140 50
Books and blanks.....	44 00
Storing lamp posts.....	30 00
Freight on cannon.....	69 58
Recount refund.....	63 00
Garbage burner.....	580 35
Tower (lighting).....	84 00
Redemptions.....	879 42
Cemetery Commissioners.....	355 68
Expenditures Water Commission.....	1,653 17
Miscellaneous.....	141 02
	<hr/>
Board of Education delinquent tax.....	\$ 119,177 10
	23,275 12
Total.....	<hr/> \$ 142,452 22

Common Council.**DISBURSEMENTS IN DETAIL.**

Mayor.....	\$ 2,287 52
Council.....	8,400 00
Supplies.....	29 25
Resolutions (engravings, etc).....	330 35
Books, blanks, etc.....	39 50
Charter amendments.....	122 04
Printing proceedings.....	3,852 25
Printing ordinances.....	680 11
L. O. M. M. fee.....	40 00
Trips.....	163 15
Miscellaneous.....	9 95
	<hr/>
	\$ 15,954 62

REPORT OF COMPTROLLER,

Mayor's Department.

DISBURSEMENTS IN DETAIL.

Mayor's salary.....	1,200 00
Secretary's salary.....	940 00
Postage.....	45 45
Books, blanks and stationery.....	20 35
Telephone.....	35 85
Supplies.....	3 76
Messages.....	17 86
Trips.....	22 25
Miscellaneous.....	2 00
	<hr/>
	\$ 2,287 52

City Attorney's Department.

DISBURSEMENTS IN DETAIL.

Supplies.....	22 92
Stationery.....	37 05
Blanks.....	25 15
Books.....	119 95
Stenographing.....	37 70
Briefs.....	25 90
Postage and revenue.....	22 85
Telephone.....	33 00
Railroad expenses.....	7 00
Transcript.....	120 67
Supreme Court opinion.....	1 00
Typewriter.....	87 75
Law library.....	8 33
Salaries.....	5,219 99
Miscellaneous.....	6 92
Fees—witness, etc.....	30 30
	<hr/>
	\$ 5,805 08

City Marshal's Department.

DISBURSEMENTS IN DETAIL.

Salaries.....	3,649 87
Approaches.....	2,516 89
Supplies.....	64 03
Stationery.....	5 75
Horse feed.....	180 00
Books and blanks.....	42 45
Labor.....	1,687 54
Postage.....	12 00
Sidewalks.....	2,155 64
Nails.....	127 42
Lumber.....	1,285 91
Nuisance.....	125 20
Plumbing.....	39 50
Plans and specifications.....	12 50
Miscellaneous.....	10 75
	<hr/>
	\$ 11,907 75

Comptroller's Department.**DISBURSEMENTS IN DETAIL.**

Salaries.....	4,220 96
Books.....	233 15
Blanks.....	188 00
Stationery.....	76 50
Postage.....	134 65
Check books.....	112 50
Telephone.....	6 25
Supplies ..	93 42
Tax-title index ..	300 00
Miscellaneous	14 54

 \$ 5,885 97
City Clerk's Department.**DISBURSEMENTS IN DETAIL.**

Salaries.....	6,250 63
Supplies.....	108 19
Dog tags.....	61 50
License tags.....	120 00
Postage.....	95 50
Blanks.....	87 80
Books.....	155 70
Stationery.....	60 77
Telephones ..	52 25
Rebate on licenses.....	20 00
Miscellaneous	17 70

 \$ 7,704 04
City Treasurer's Department.**DISBURSEMENTS IN DETAIL.**

Salaries.....	6,238 34
Postals.....	75 00
Postage and revenue.....	81 32
Books.....	144 70
Blanks, etc.....	52 25
Stationery.....	44 50
Telephone.....	12 00
Supplies.....	46 46
Typewriter.....	87 75
Miscellaneous	3 70

 \$ 6,780 02
Tax Department.**DISBURSEMENTS IN DETAIL.**

Salaries.....	4,633 50
Supplies ..	10 55
Postage	94 40

Books.....	\$ 219 56
Blanks, etc.....	19 50
Advertising.....	1,738 69
Telephone.....	6 00
Miscellaneous.....	2 50

\$ 6,724 70

Board of Public Works Department.

DISBURSEMENTS IN DETAIL.

Office account.....	\$ 1,779 99
Engineer's and assistants' salary.....	8,861 91
Supplies.....	249 60
Livery.....	151 50
Members' salaries.....	1,363 50
Books, blanks and stationery.....	141 85
Carfare.....	337 50
Postage.....	23 33
Telephones.....	36 00
Abstracts.....	20 35
Legal advice.....	3 65
Tumbling brick.....	15 75
Trips.....	102 59
Typewriter.....	87 75
Reports.....	72 90
Petty cash account.....	100 00
Miscellaneous.....	23 37
Repairs.....	65 98

\$ 13 437 02

City Hall Department.

DISBURSEMENTS IN DETAIL.

Custodian's salary.....	\$ 371 00
Employees.....	4,432 25
Supplies.....	805 99
Repairs.....	1,483 99
Coal.....	874 50
Ice.....	199 14
Gas.....	1,066 40
Furniture.....	525 59
Water.....	156 80
Elevator (water, etc).....	858 81
Plumbing	82 29
Washing towels.....	20 01
Cable.....	35 00
Grand Rapids Messenger and Packet Co	75 00
Sewer.....	293 73
Insurance.....	83 33
Hauling ashes.....	60 00
Miscellaneous.....	10 43

\$ 11,434 26

Building Inspector's Department.

DISBURSEMENTS IN DETAIL.

Salary	\$ 900 00
Stationery and blanks	6 00
Books	40 75
Postage	2 60
Supplies	25
	<hr/>

2 949 60

Milk Inspector's Department.

DISBURSEMENTS IN DETAIL.

Salaries	\$ 1,400 00
Books and blanks	1 75
Supplies	15 24
Postage	3 00
Telephone	30 00
Stationery	3 25
Apparatus	12 80
Livery	140 57
Miscellaneous	14 23
	<hr/>

2 1,620 84

Board of Assessors' Department.

DISBURSEMENTS IN DETAIL.

Salaries	\$ 4,500 00
Books	218 00
Blanks	57 60
Stationery	31 75
Telephone	24 00
Advertising	28 09
Postage	117 00
Supplies	69 98
Maps	48 00
	<hr/>

2 5,001 82

Fire Department Fund.

Dr.

To disbursements	\$ 118 945 10
To balance. April 19, 1900.	11 012 80
	<hr/>

2 129,957 90

Cr.

By balance. April 18, 1899	\$ 18 389 84
By collections	1,568 06
By appropriation	105 000 00
By transfers	5,000 00
	<hr/>

2 129,957 90

REPORT OF COMPTROLLER,

FIRE DEPARTMENT FUND—DISBURSEMENTS IN DETAIL.

Salaries.....	\$ 94,848 03
Repairs	1,290 45
Supplies	2,576 95
Shoeing.....	1,261 88
Hose and apparatus.....	10,196 74
Feed and bedding	2,843 97
Horses.....	1,085 00
Lighting	295 40
Secretary's disbursements	2,006 90
Edison Lighting Co.....	108 00
Veterinary.....	453 13
Water.....	255 00
Fuel	1,340 42
Telephone	56 00
Books, blanks and stationery.....	73 50
Band.....	34 00
Office furniture	19 00
Conventions	76 00
Taxes	10 00
Annual reports	83 66
Livery	15 50
Miscellaneous	14 57
	<hr/>
	\$ 118,945 10

Police Department Fund.

Dr.

To disbursements.....	\$ 87,970 23
To balance, April 19, 1900.....	5,029 02
	<hr/>
	\$ 92,999 25

Cr.

By balance, April 18, 1899	\$ 16,912 60
By collections	386 65
By appropriation	75,000 00
	<hr/>
	\$ 92,299 25

POLICE DEPARTMENT FUND—DISBURSEMENTS IN DETAIL.

Salaries.....	\$ 81,657 55
Repairs	568 38
Supplies	528 40
Shoeing	265 35
Feed and bedding	630 80
Apparatus	571 64
Lighting	454 94
Secretary's disbursements.....	964 85
Telegrams and telephone	126 11
Pound account.....	238 00
Books, blanks and stationery.....	169 95
Coal, ice and water	697 34

Traut's rig	\$ 87 50
Livery	4 50
Annual reports	88 66
Dues, B. of I.	50 00
Convention	12 00
Ottawa street assessment	50 00
Storage	30 00
Insurance	50 00
Miscellaneous	29 25
	<hr/>
	\$ 87,270 23

Poor Fund.**Dr.**

To disbursements	\$ 15,527 06
To balance, April 19, 1900	2,389 69
	<hr/>
	\$ 17,916 75

Cr.

By balance, April 18, 1899	\$ 3,209 93
By collections	146 89
By appropriation	10,000 00
By transfers	450 00
	<hr/>
	\$ 17,916 75

POOR FUND—DISBURSEMENTS IN DETAIL.

Milk	\$ 40 60
Shoe orders	103 15
Meat orders	139 92
Clothing orders	16 10
Burials	217 30
Board and care of city charges	740 27
Cemetery commissioners	70 00
Wood and delivery	3,670 94
Medicines	704 71
Supplies	1,901 61
Hospitals	2,727 01
Salaries	4,478 07
Transportation	220 66
Office supplies	56 50
Petty cash account	25 00
Livery	36 50
Annual reports	14 00
Miscellaneous	74 12
	<hr/>
	\$ 15,527 06

POOR SUPPLY STORE ACCOUNT—DISBURSEMENTS IN DETAIL.

43 000 pounds flour	\$ 794 75
50½ bushels beans	64 53
21 barrels and 400 lbs pork	232 77
1,350 pounds coffee	163 00
5¼ chests and 20 lbs. tea	110 65
2,813 pounds rice	122 50
14 barrels sugar	225 89

REPORT OF COMPTROLLER,

5 barrels syrup.....	\$ 45 80
3 cases matches	9 78
135 gallons kerosene	8 78
8 barrels salt.....	6 78
30 boxes soap.....	75 50
Paper and twine	13 25
825 pounds barley.....	17 23
Miscellaneous.....	11 60

\$ 1,901 61

Contingent Fund.**Dr.**

To Board of Education.....	\$ 39,463 29
To transfers.....	\$ 103,898 95
To disbursements.....	10,662 88
To balance, April 19, 1900.....	7,585 34

\$ 161,610 46

Cr.

By balance, April 18, 1899.....	\$ 47,523 00
By transfers.....	34,821 48
By stone.....	246 73
By library	773 79
By liquor licenses	39,532 96
By primary.....	38,689 50
By sundries	3 00

\$ 161,610 46

CONTINGENT FUND—DISBURSEMENTS IN DETAIL.

Supervisors	\$ 113 04
Clerks, Board of Assessors	6,842 30
Fitzhugh street assessment	30 00
Purchase of Holland street	150 00
Damages.....	780 00
Stone	308 72
Overseeing prisoners	810 00
Yellows commissioners.....	309 00
Stone crusher	896 27
Soldiers.....	340 43
Swimming pool.....	83 18

\$ 10,662 88

Board of Education primary money	\$ 39,463 29
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\$ 39,463 29

\$ 50,126 17

Superior Court Fund.**Dr.**

To disbursements	\$ 3,905 13
To balance, April 19, 1900	57 61

\$ 3,962 74

Cr.

By balance, April 18, 1899	\$ 1,733 29
By appropriation	1,800 00
By collections	429 45

\$ 3,962 74

SUPERIOR COURT FUND—DISBURSEMENTS IN DETAIL.

Salaries	\$ 1,100 00
Attendance	1,822 76
Fees	277 85
Mileage	108 00
Supplies	161 47
Books	35 50
Stationery and blanks	111 70
Postage and revenue	26 45
Livery	10 00
Telephone	30 00
Calendars	128 40
Returns to Governor	22 00
Typewriter	55 00
Miscellaneous	16 00

\$ 3,905 13

Police Court Fund.

Dr.

To balance, April 18, 1899	\$ 107 23
To disbursements	2,106 61
To transfers	579 63
To balance, April 19, 1900	501 08

\$ 3,294 55

Cr.

By appropriation	\$ 1,000 00
By collections	1,714 92
By transfers	579 63

\$ 3,294 55

POLICE COURT FUND—DISBURSEMENTS IN DETAIL

Salaries	\$ 1,899 96
Witness fees	48 55
Jury fees	13 50
Supplies	16 95
Books	59 50
Blanks and stationery	45 40
Telephone	12 00
Postage	10 00
Interpreter	75

\$ 2,106 61

REPORT OF COMPTROLLER,

Justice Court Fund.

Dr.

To disbursements	\$ 3,624 63	
To balance, April 19, 1900.....	2,836 37	
		\$ 6,461 00

Cr.

By balance, April 18, 1899	\$ 2,118 33	
By appropriation	2,000 00	
By collections	2,342 67	
		\$ 6,461 00

JUSTICE COURT FUND—DISBURSEMENTS IN DETAIL.

Salaries.....	\$ 3,400 00	
Books.....	24 40	
Blanks.....	69 60	
Stationery.....	18 50	
Supplies.....	16 59	
Postage and revenue.....	15 54	
Rent (Norris block).....	80 00	
		\$ 3,624 63

John Ball Park Fund.

Dr.

To disbursements.....	\$ 18,806 41	
To transfers.....	8,000 00	
To balance, April 19, 1900	515 79	
		\$ 27,322 20

Cr.

By balance, April 18, 1899	\$ 3,175 08	
By collections	459 78	
By appropriation	20,000 00	
By transfers.....	3,687 34	
		\$ 27,322 20

JOHN BALL PARK FUND—DISBURSEMENTS IN DETAIL.

Pay roll	\$ 10,194 28	
Cages	69 90	
Supplies	926 94	
Fuel	18 42	
Crusher.....	1,046 87	
Feed	348 68	
Park improvements.....	2,932 77	
Repairs	634 93	
Books, blanks etc.....	17 25	
Animals.....	138 65	
Board of horse	24 30	
Music.....	833 00	
Water	1,187 34	

Horse	\$ 20 00	
Mounting animal.	10 00	
Letters for beds	300 00	
Veterinary	9 50	
Watson street assessment.	25 00	
Cartage	7 85	
Shoeing	5 20	
Advertising	12 62	
Miscellaneous	44 81	
		\$ 18,806 41

John Ball Park Extension Fund.**Dr.**

To disbursements	\$ 4,841 67	
To balance, April 19, 1900	3,179 12	
		\$ 8,020 79

Cr.

By balance, April 18, 1899	\$ 2,455 79	
By appropriation	5,565 00	
		\$ 8,020 79

Park Fund.**Dr.**

To disbursements	\$ 5,220 48	
To transfers	1,300 00	
To balance, April 19, 1900	197 88	
		\$ 6,718 36

Cr.

By balance, April 18, 1899	\$ 921 66	
By appropriation	4,800 00	
By collections	2 25	
By transfers	994 45	
		\$ 6,718 36

PARK FUND—DISBURSEMENTS IN DETAIL.

Highland	\$ 1,323 31	
Fulton	1,478 27	
Monument	71 95	
East Bridge Street	75 50	
Crescent	729 04	
State Street	130 10	
Foster	244 40	
Ellsworth	103 25	
Lookout	896 91	
Pearl	48 25	
Letters for beds	75 00	
Shoeing	3 20	
Horse	60 00	
Miscellaneous	45 30	
		\$ 5,220 48

REPORT OF COMPTROLLER,

Lincoln Park Fund.

Dr.

To disbursements	\$ 2,594 33	
To transfers	2,000 00	
To balance, April 19, 1900.....	116 40	
		\$ 4,710 73

Cr.

By balance, April 18, 1899	\$ 111 71	
By appropriation	2,500 00	
By collections	6 00	
By transfers	2,093 02	
		\$ 4,710 73

LINCOLN PARK FUND—DISBURSEMENTS IN DETAIL.

Pay roll	\$ 1,881 84	
Supplies	142 03	
Repairs	34 72	
Walk	145 04	
Water	118 02	
Marion street assessment	190 00	
Hose	43 50	
Horse	10 00	
Board of horse	12 00	
Miscellaneous	17 18	
		\$ 2,594 33

Antoine Campau Park Fund.

Dr.

To disbursements	\$ 4,727 92	
To balance, April 19, 1900	210 78	
		\$ 4,938 70

Cr.

By transfers	\$ 4,934 70	
By collection	4 00	
		\$ 4,938 70

ANTOINE CAMPAU PARK FUND—DISBURSEMENTS IN DETAIL.

Pay roll	\$ 2,576 46	
Supplies	30 65	
Walks	335 52	
Repairs	5 18	
Trees	749 27	
Improvements	555 64	
City and Highway taxes	214 52	
State, county and school tax	230 18	
Miscellaneous	27 50	
Board of horse	13 00	
		\$ 4,727 92

Greenhouse Fund.**Dr.**

To transfers	\$ 1,500 00	
To disbursements	4,644 00	
To balance, April 19, 1900	168 63	
		\$ 6,307 63

Cr

By balance, April 18, 1899	\$ 733 78	
By appropriation	4,300 00	
By collections	773 85	
By transfers	500 00	
		\$ 6,307 63

GREENHOUSE FUND—DISBURSEMENTS IN DETAIL.

Pay roll	\$ 3,160 76	
Supplies	116 55	
Fuel	312 66	
Repairs	25 35	
Improvements	887 30	
Telephone	30 00	
Horse	10 00	
Board of horse	36 00	
Advertising	3 61	
Insurance	41 66	
Freight	3 60	
Miscellaneous	16 50	
		\$ 4,644 00

Public Lighting Fund.**Dr.**

To disbursements	\$ 37,442 14	
To transfer	6,000 00	
To balance, April 19, 1900	4,376 80	
		\$ 47,818 94

Cr.

By balance, April 18, 1899	\$ 12,797 74	
By appropriation	35,000 00	
By collections	21 20	
		\$ 47,818 94

PUBLIC LIGHTING FUND—DISBURSEMENTS IN DETAIL.

Grand Rapids Electric Light and Power Co.	\$ 39,870 08	
Weisbach Street Lighting Co.	1,036 75	
Edison Light Co	31 70	
Livery	17 00	
Horses	190 00	
Pay roll	2,315 19	
Superintendent	291 66	

REPORT OF COMPTROLLER.

Board of Public Works office account.....	\$ 86 58
Labor and material	16 41
Supplies	1,416 76
Fuel	2,028 18
Telephone	26 00
Feed	84 55
Freight	90 53
Blanks	6 75
Veterinary	4 00
	<hr/>
	\$ 37,442 14

Electric Light Construction Fund.**Dr.**

To disbursements	\$ 125,084 37
To balance, April 19, 1900.	530 26
	<hr/>
	\$ 125,614 63

Cr.

By balance, April 18, 1899	\$ 73,694 98
By appropriation	20,000 00
By collections	4 48
By transfers.....	31,915 17
	<hr/>
	\$ 125,614 63

ELECTRIC LIGHT FUND -DISBURSEMENTS IN DETAIL.

Pay roll.....	\$ 3,369 26
Inspector	143 26
Superintendent.....	836 64
Board of Public Works office account	372 74
Labor and material	1,104 37
Lumber	301 16
Stone.....	198 75
Dirt	766 80
Roadway.....	170 17
Supplies	2,375 33
Books, blanks and stationery.....	7 80
Fuel.....	264 73
Horse	90 00
Engineers' expenses (N. & B.).....	571 80
Plant.....	114,081 42
Moving poles, etc.....	147 98
Expert examiner and tests	93 00
Freight	60 10
Surveying	68 00
Miscellaneous	61 06
	<hr/>
	\$ 125,084 37

Market Fund.**Dr.**

To transfers.....	\$ 3,000 00
To disbursements	2,904 97
To balance, April 19, 1900.....	8,580 94

\$ 13,785 1

Cr.

By balance, April 18, 1899.....	\$ 9,192 57
By collections	4,593 84

\$ 13,785

MARKET FUND—DISBURSEMENTS IN DETAIL.

Pay roll.....	\$ 1,154 13
Repairs.....	86 64
Dirt.....	122 10
Supplies	88 15
Stone	21 00
Roadway	170 17
Telephone	30 00
Buildings	534 83
Fuel	18 96
Insurance	14 03
Advertising.....	7 23
Miscellaneous.....	12 75

\$ 2,204 97

Health Fund.**Dr.**

To disbursements.....	\$ 10,628 88
To balance, April , 1900.	5,431 84

\$ 16,060 22

Cr.

By appropriation.....	\$ 12,000 00
By collections	2 50
By transfers.....	4,057 72

\$ 16,060 22

BOARD OF HEALTH FUND—DISBURSEMENTS IN DETAIL.

Salaries	\$ 1,800 00
Inspecting	2,075 33
Quarantine and hospital.....	1,287 85
Supplies	156 65
Stationery	5 00
Reports, blanks, etc.	130 90
Reporting contagious diseases.....	57 90
Care of Contagious diseases.....	869 48
Postage	59 46
Livery	55 50

REPORT OF COMPTROLLER,

Water.....	\$ 8 25
Dump.....	27 00
Garbage burner.....	3,759 26
Nuisance.....	20 00
Trips.....	28 60
Burials.....	54 00
Bacteriologist.....	207 75
Miscellaneous.....	25 45
	<hr/>
	\$ 10,628 38

GARBAGE BURNER DEPARTMENT—DISBURSEMENTS IN DETAIL

Pay roll.....	\$ 1,615 00
Repairs.....	233 78
Supplies.....	54 98
Roadway.....	680 66
Fuel.....	1,117 13
Water.....	8 87
Freight.....	53 84
	<hr/>
	\$ 3,759 26

Water Works Fund.

Dr.

To disbursements.....	\$ 49,416 91
To transfers.....	8,000 00
To balance, April 19, 1900.....	2,707 25
	<hr/>
	\$ 60,124 16

Cr.

By balance, April 18, 1899.....	\$ 3,606 41
By collections.....	8,517 75
By transfers.....	48,000 00
	<hr/>
	\$ 60,124 16

Water Works Income Fund.

Dr.

To disbursements.....	\$ 54,376 43
To transfers.....	79,261 96
To balance, April 19, 1900.....	2,953 23
	<hr/>
	\$ 136,591 62

Cr.

By balance, April 18, 1899.....	\$ 9,419 95
By collections.....	127,171 67
	<hr/>
	\$ 136,591 62

Road Roller Fund.

Dr.

To disbursements.....	\$ 5,768 18
To balance, April 19, 1900.....	1,957 17
	<hr/>
	\$ 7,725 35

Cr.

By balance, April 18, 1899	\$	115 74	
By collections		7,609 61	
		<u>7,725 35</u>	\$ 7,725 35

Redemption on Deposit Fund.

Dr.

To disbursements	\$	22 65	
To balance, April 19, 1900.		24 64	
		<u>47 29</u>	\$ 47 29

Cr.

By collections	\$	47 29	
		<u>47 29</u>	\$ 47 29

Hospital Fund.

Dr.

To transfer to Health Fund	\$	3,596 50	
		<u>3,596 50</u>	\$ 3,596 50

Cr.

By balance April 18, 1899	\$	3,596 50	
		<u>3,596 50</u>	\$ 3,596 50

Police and Fire Pension Fund.

Dr.

To disbursements	\$	249 96	
To balance, April 19, 1900.		127 15	
		<u>377 11</u>	\$ 377 11

Cr.

By balance, April 18, 1899	\$	92 11	
By appropriation		285 00	
		<u>377 11</u>	\$ 377 11

General Tax Fund.

Dr.

To budget	\$	402,866 09	
To Board of Education		259,946 74	
To rebate		9 87	
		<u>662,822 70</u>	\$ 662,822 70

Cr.

By collections	\$	662,822 70	
		<u>662,822 70</u>	\$ 662,822 70

REPORT OF COMPTROLLER,

Library Fund.

Dr.

To Board of Education	\$	1,431 85
To balance, April 19, 1900		71 80

Cr.

By balance, April 18, 1899	\$	47 00
By collections		1,456 65
	\$	1,503 65

Bridge Street Bridge Approach Fund.

Dr.

To disbursements	\$	268 52
To balance, April 19, 1900		4,731 48

Cr.

By appropriation	\$	5,000 00
	\$	5,000 00

Valley City Cemetery Fund.

Dr.

To disbursements	\$	14,490 59
To balance, April 19, 1900		4,597 96
	\$	19,088 55

Cr.

By balance, April 18, 1899	\$	4,597 04
By collections		14,526 51
	\$	19,088 55

Greenwood Cemetery Fund.

Dr.

To disbursements	\$	4,336 71
To balance, April 19, 1900		2,291 81
	\$	6,618 52

Cr.

By balance, April 18, 1899	\$	2,841 51
By collections		3,777 00
	\$	6,618 52

Wealthy Avenue Bridge Fund.

Dr.

To balance, April 19, 1900	\$	13,698 75
	\$	13,698 75

Cr.

By balance April 18, 1899.....	\$ 13,698 75	
		\$ 13,698 75

Bridge Fund.

Dr.

To disbursements.....	\$ 2,664 64	
To transfers.....	1,700 00	
To balance, April 19, 1900.....	1,345 82	
		\$ 5,710 46

Cr.

By balance, April 18, 1899.....	\$ 372 79	
By appropriation.....	3,500 00	
By transfers.....	1,700 00	
By collections.....	187 67	
		\$ 5,710 46

First Sewer District Fund.

Dr.

To disbursements.....	\$ 2,759 36	
To balance, April 19, 1900.....	\$ 421 64	
		\$ 3,181 00

Cr.

By balance, April 18, 1899.....	\$ 614 00	
By appropriation.....	2,500 00	
By collections.....	67 00	
		\$ 3,181 00

Second Sewer District Fund.

Dr.

To disbursements.....	\$ 2,128 72	
To transfers.....	500 00	
To balance, April 19, 1900.....	104 87	
		\$ 2,733 09

Cr.

By balance, April 18, 1899.....	\$ 278 09	
By appropriation.....	1,500 00	
By collections.....	55 00	
By transfers.....	900 00	
		\$ 2,733 09

Third Sewer District Fund.**Dr.**

To disbursements.....	\$ 3,462 43
To transfers.....	2,150 00
To balance, April 19, 1900.....	711 09

\$ 6,323 52

Cr.

By balance, April 18, 1899.....	\$ 118 52
By appropriation.....	4,000 00
By collections.....	55 00
By transfers.....	2,150 00

\$ 6,323 52

First Ward Highway Fund.**Dr.**

To disbursements.....	\$ 4,604 51
To transfers.....	1,500 00
To balance, April 19, 1900.....	523 30

\$ 6,627 81

Cr.

By balance, April 18, 1899.....	\$ 642 27
By appropriation.....	5,000 00
By collections.....	285 54
By transfers.....	500 00

\$ 6,627 81

Second Ward Highway Fund.**Dr.**

To disbursements	\$ 6,023 97
To balance, April 19, 1900	658 76

\$ 7,282 73

Cr.

By balance, April 18, 1899.....	\$ 1,843 18
By appropriation.....	5,000 00
By collections	439 55

\$ 7,282 73

Third Ward Highway Fund.**Dr**

To disbursements	\$ 5,537 70
To balance, April 19, 1900	732 61

\$ 6,270 31

Cr.

By balance, April 18, 1899	\$ 2,162 30	
By appropriation	4,000 00	
By collections	108 01	
		\$ 6,270 31

Fourth Ward Highway Fund.

Dr.

To disbursements	\$ 6,473 23	
To transfers	1,400 00	
To balance, April 19, 1900	1,072 33	
		\$ 8,945 56

Cr.

By balance, April 18, 1899	\$ 459 91	
By appropriation	6,000 00	
By collections	1,085 65	
By transfers	1,400 00	
		\$ 8,945 56

Fifth Ward Highway Fund.

Dr.

To disbursements	\$ 3,490 93	
To transfers	200 00	
To balance, April 19, 1900	781 72	
		\$ 4,472 65

Cr.

By balance, April 18, 1899	\$ 1,264 31	
By appropriation	3,000 00	
By collections	8 34	
By transfers	200 00	
		\$ 4,472 65

Sixth Ward Highway Fund.

Dr.

To disbursements	\$ 3,110 97	
To transfers	500 00	
To balance, April 19, 1900	141 39	
		\$ 3,752 36

Cr.

By balance, April 18, 1899	\$ 252 36	
By appropriation	3,000 00	
By transfers	500 00	
		\$ 3,752 36

REPORT OF COMPTROLLER,

Seventh Ward Highway Fund.

Dr.

To disbursements	\$ 3,057 86	
To transfers	500 00	
To balance, April 19, 1900	113 25	
		\$ 3,671 11

Cr.

By balance, April 18, 1899	\$ 671 11	
By appropriation	2,500 00	
By transfers	500 00	
		\$ 3,671 11

Eighth Ward Highway Fund.

Dr.

To disbursements	\$ 1,804 98	
To transfers	700 00	
To balance, April 19, 1900	203 38	
		\$ 2,708 81

Cr.

By balance, April 18, 1899	\$ 208 81	
By appropriation	2,000 00	
By transfers	500 00	
		\$ 2,708 81

Ninth Ward Highway Fund.

Dr.

To disbursements	\$ 3,123 50	
To transfers	400 00	
To balance, April 19, 1900	493 19	
		\$ 4,016 69

Cr.

By balance, April 18, 1899	\$ 616 69	
By appropriation	3,000 00	
By transfers	400 00	
		\$ 4,016 69

Tenth Ward Highway Fund.

Dr.

To disbursements	\$ 3,471 76	
To transfers	300 00	
To balance, April 19, 1900	332 91	
		\$ 4,104 67

Cr.

By balance, April 18, 1899.....	\$ 606 27	
By appropriation.....	3,000 00	
By collections.....	198 40	
By transfers.....	300 00	
	<hr/>	\$ 4,104 67

Eleventh Ward Highway Fund.

Dr.

To disbursements.....	\$ 3,239 14	
To transfer.....	1,000 00	
To balance, April 19, 1900.....	44 30	
	<hr/>	\$ 4,276 44

Cr.

By balance, April 18, 1899.....	\$ 55 44	
By appropriation.....	3,000 00	
By collections.....	21 00	
By transfers.....	1,200 00	
	<hr/>	\$ 4,276 44

Twelfth Ward Highway Fund.

Dr.

To disbursements.....	\$ 2,630 82	
To transfers.....	700 00	
To balance, April 19, 1900.....	171 25	
	<hr/>	\$ 3,502 07

Cr.

By balance.....	\$ 98 57	
By appropriation.....	2,500 00	
By collections.....	3 50	
By transfers.....	900 00	
	<hr/>	\$ 3,502 07

Water Works Interest Fund.

Dr.

To interest.....	\$ 39,261 96	
	<hr/>	\$ 39,261 96

Cr.

By transfers.....	\$ 39,261 96	
	<hr/>	\$ 39,261 96

Sinking Fund.

Dr.

To balance, April 19, 1900.....	\$ 136,175 73	
	<hr/>	\$ 136,175 73

REPORT OF COMPTROLLER.

Cr.

By balance, April 11, 1899.....	\$ 116,175 73	
By transfers from street improvement bonds.....	5,000 00	
By appropriation.....	15,000 00	
		\$ 136,175 73

Special Improvement Bonds Fund.

Dr.

To bonds and interest	\$ 100,250 00	
To transfers.....	210,758 41	
To balance, April 19, 1900.	235,592 77	
		\$ 555,601 18

Cr.

By balance, April 18, 1899.....	\$ 185,534 67	
By transfers.....	164,836 36	
By bonds.....	205 230 15	
		\$ 555,601 18

City Hall Interest Fund.

Dr.

To interest.....	\$ 7,500 00	
To balance, April 19, 1900.....	3,750 00	
		\$ 11,250 00

Cr.

By balance, April 18, 1899.....	\$ 3,750 00	
By appropriation.....	7,500 00	
		\$ 11,250 00

Special Bonds Interest Fund.

Dr.

To interest	\$ 6,021 00	
To balance, April 19, 1900.....	3,010 50	
		\$ 9,031 50

Cr.

By balance, April 18, 1899.....	\$ 3,010 50	
By appropriation	6,021 00	
		\$ 9,031 50

Market Bonds Interest Fund.

Dr.

To interest	\$ 3,007 00	
To balance, April 19, 1900.....	1,489 50	
		\$ 4,496 50

Cr.

By balance, April 18, 1899.....	\$ 1,496 80	
By transfer	3,000 00	
	<hr/>	\$ 4,496 80

Electric Light Bonds Interest Fund.

Dr.

To interest	\$ 5,017 50	
To balance, April 19, 1900.....	2,473 75	
	<hr/>	\$ 7,491 25

Cr.

By balance, April 18, 1899.....	\$ 2,491 25	
By appropriation.....	5,000 00	
	<hr/>	\$ 7,491 25

Garbage Burner Fund.

Dr.

To balance, April 18, 1899.....	\$ 7 21	
	<hr/>	\$ 7 21

Cr.

By transfer.....	\$ 7 21	
	<hr/>	\$ 7 21

Board of Education Fund.

Dr.

To balance, April 19, 1900.....	\$ 62 14	
	<hr/>	\$ 62 14

Cr.

By collections	\$ 62 14	
	<hr/>	\$ 62 14

Engine House No. 10 Fund.

Dr.

To transfer to Fire Department.....	\$ 5,000 00	
	<hr/>	\$ 5,000 00

Cr

By balance, April 18, 1899	\$ 5,000 00	
	<hr/>	\$ 5,000 00

REPORT OF COMPTROLLER,

City and Highway Tax, 1899.

		Dr.			
July 1, 1899.	To First Ward Roll.....	\$	33 684 79		
	Second "		102,701 14		
	Third "		55,819 44		
	Fourth "		55,478 85		
	Fifth "		22,675 77		
	Sixth "		19,293 74		
	Seventh "		18,574 03		
	Eighth "		14 222 46		
	Ninth "		17,519 27		
	Tenth "		25,084 51		
	Eleventh "		20 558 27		
	Twelfth "		14,392 07		
				\$	400.011 34
		Cr.			
April 19, 1900.	First Ward.	By collections	\$ 33,195 94		
		returns—real estate	396 20		
		personal	92 65	\$	33,684 79
	Second Ward.	collections	102,188 75		
		returns—real estate	461 47		
		personal	50 92		102,701 14
	Third Ward.	collections	54,957 01		
		returns—real estate	815 42		
		personal	47 01		55,819 44
	Fourth Ward.	collections	54,856 43		
		returns—real estate	598 54		
		personal	23 88		55,478 85
	Fifth Ward.	collections	21,665 54		
		returns—real estate	1,005 02		
		personal	5 21		22,675 77
	Sixth Ward.	collections	18,956 01		
		returns—real estate	335 43		
		personal	2 30		19,293 74
	Seventh Ward.	collections	18,296 78		
		returns—real estate	277 25		18,574 03
	Eighth Ward.	collections	14,128 59		
		returns—real estate	70 95		
		personal	18 03		
		rejected	4 89		14,232 46
	Ninth Ward.	collections	17,301 64		
		returns—real estate	210 61		
		personal	7 02		17,519 27
	Tenth Ward.	collections	24,627 46		
		returns—real estate	451 22		
		personal	5 23		25,084 51
	Eleventh Ward.	collections	19,653 67		
		returns—real estate	898 59		
		personal	6 01		20,558 27
	Twelfth Ward.	collections	14,067 88		
		returns—real estate	224 78		
		personal	95 46		
		rejected	10 95		14,399 07
				\$	400.011 34

Fees Collected on City and Highway Tax, 1899.

First Ward.....	\$ 179 51	
Second Ward.....	946 99	
Third Ward.....	319 10	
Fourth Ward.....	326 87	
Fifth Ward.....	809 75	
Sixth Ward.....	908 60	
Seventh Ward.....	170 24	
Eighth Ward.....	86 32	
Ninth Ward.....	101 78	
Tenth Ward.....	266 10	
Eleventh Ward.....	274 94	
Twelfth Ward.....	177 44	
		\$ 2,714 64

City Treasurer.

To returned city and highway tax, 1899.....	\$ 5,745 48	
To advertising and fees on same.....	987 51	
		\$ 6,732 99
By redemptions.....	\$ 1,786 94	
By balance uncollected.....	4,966 05	
		\$ 6,732 99

REVENUE.

Fees collected city and highway tax, 1899.....	\$ 3 08
--	---------

City Treasurer.**RETURNED PERSONAL TAX.**

To city and highway.....	\$ 354 32	
To school.....	534 32	
To state and county.....	329 59	
		\$ 1,211 23

COLLECTIONS.

By school tax.....	\$ 62 14	
By state and county tax.....	37 27	
By balance uncollected.....	1,111 82	
		\$ 1,211 23

REVENUE.

Fees collected state and county personal tax.....	\$ 3 99
---	---------

School and Delinquent Tax—1899.**Dr.**

To First Ward Roll.....	\$ 22,286 60
To Second ".....	75,484 29
To Third ".....	40,200 67
To Fourth ".....	38,300 69

To Fifth Ward Roll.....	\$ 15,161 09
To Sixth "	12,532 41
To Seventh "	12,393 14
To Eighth "	9,428 77
To Ninth "	11,190 27
To Tenth "	17,128 69
To Eleventh "	13,597 12
To Twelfth "	9,155 52

\$ 276,859 26

Cr.

First Ward.	By collections.....	\$ 21,066 36	
	returns—real estate.....	1,144 19	
	personal	76 05	\$ 22,286 60
Second Ward.	collections.....	74,160 65	
	returns—real estate	1,159 11	
	personal	164 53	75,484 29
Third Ward.	collections.....	37,770 00	
	returns—real estate.....	2,379 18	
	personal	50 70	
	rejected	79	40,200 67
Fourth Ward.	collections.....	36,112 27	
	returns—real estate.....	2,127 78	
	personal	60 64	38,300 69
Fifth Ward.	collections.....	13,375 36	
	returns—real estate.....	1,781 27	
	personal	4 47	15,161 09
Sixth Ward.	collections.....	11,547 61	
	returns—real estate.....	962 81	
	personal	1 99	12,532 41
Seventh Ward.	collections.....	11,434 63	
	returns—real estate.....	943 60	
	personal	14 91	12,393 14
Eighth Ward.	collections.....	8,998 43	
	returns—real estate.....	415 18	
	personal	11 93	
	rejected	3 23	9,428 77
Ninth Ward.	collections.....	10,529 45	
	returns—real estate.....	650 85	
	personal.....	9 94	11,190 27
Tenth Ward.	collections.....	15,611 14	
	returns—real estate	1,513 58	
	personal	3 97	17,128 69
Eleventh Ward.	collections.....	11,827 47	
	returns—real estate.....	1,756 74	
	personal	13 91	13,597 12
Twelfth Ward.	collections.....	8,264 97	
	returns—real estate.....	763 31	
	personal	121 28	
	rejected	6 96	9,155 52
			\$ 276,859 26

Fees Collected on School and Delinquent Tax, 1899.

First Ward.....	\$ 408 24	
Second Ward.....	1,375 25	
Third Ward.....	723 56	
Fourth Ward.....	707 73	
Fifth Ward.....	413 84	
Sixth Ward.....	274 16	
Seventh Ward.....	251 91	
Eighth Ward.....	175 39	
Ninth Ward.....	208 45	
Tenth Ward.....	343 24	
Eleventh Ward.....	277 56	
Twelfth Ward.....	183 72	
	<hr/>	\$ 5,244 05
Rejected tax, 1898.....	\$ 660 48	
Surplus.....	91	
	<hr/>	\$ 660 64
Rejected State and County, 1899.....	\$ 323 59	
Rejected State and County.....	6 59	
Rejected City and Highway.....	10 90	
Rejected interest and expense, 1899 roll.....	49 61	
Deposited with City Treasurer.....	270 95	
	<hr/>	\$ 660 64

County Treasurer.

Dr.

Returned school tax.....	\$ 15,615 60	
	<hr/>	\$ 15,615 60

TAX COLLECTIONS AND RETURNS—COMPARATIVE STATEMENT—CITY AND HIGHWAY TAX ROLLS.

WARDS.	COLLECTIONS		RETURNS	
	1898	1899	1898	1899
First.....	\$ 30,800 18	33,105 94	\$ 666 60	\$ 488 85
Second.....	96,081 35	102,188 75	717 99	512 30
Third.....	54,670 36	54,967 01	662 51	862 43
Fourth.....	53,100 97	54,866 43	931 28	622 42
Fifth.....	21,596 08	21,665 54	1,156 69	1,010 23
Sixth.....	18,007 75	18,956 01	287 46	327 73
Seventh.....	18,608 56	18,396 78	206 05	277 25
Eighth.....	14,038 60	14,128 59	55 35	93 87
Ninth.....	16,653 02	17,301 64	463 53	217 63
Tenth.....	24,037 13	24,637 46	816 90	487 05
Eleventh.....	19,546 87	19,653 67	736 35	904 06
Twelfth.....	13,062 78	14,067 88	285 38	331 19
Totals.....	\$ 383,071 66	\$ 393,905 70	\$ 6,996 07	\$ 6,115 64

BUDGET FOR 1900-1901 AS APPORTIONED BY CITY COMPTROLLER.

WARD	CITY TAX	SEWER TAX	DELINQUENT TAX	TOTAL CITY	HIGHWAY TAX	TOTAL TAX
First.....	\$ 33,710 30	\$ 592 80	\$ 92 65	\$ 34,395 65	\$ 4,300 00	\$ 38,695 65
Second.....	104,302 00	1,171 60	50 92	105,524 52	5,000 00	110,524 52
Third.....	51,181 50	962 90	41 48	52,185 88	4,000 00	56,185 88
Fourth.....	53,231 50	597 40	23 86	53,853 18	6,000 00	59,853 18
Fifth.....	20,536 40	220 60	5 21	20,772 21	3,000 00	23,772 21
Sixth.....	19,370 70	652 35	2 30	20,025 35	3,000 00	23,025 35
Seventh.....	17,841 40	600 85	.....	18,442 65	2,500 00	20,942 65
Eighth.....	12,771 50	430 15	22 92	13,224 57	2,000 00	15,224 57
Ninth.....	16,826 00	566 65	7 02	17,399 67	3,000 00	20,399 67
Tenth.....	23,827 10	418 90	5 83	24,251 83	3,000 00	27,251 83
Eleventh.....	17,719 00	311 65	4 51	18,035 16	2,000 00	21,035 16
Twelfth.....	12,713 20	223 65	106 41	13,043 26	2,500 00	15,543 26
Totals.....	\$ 387,084 00	\$ 6,750 00	\$ 363 13	\$ 394,144 13	\$ 41,300 00	\$ 435,444 13

COMPARATIVE STATEMENT.

FUND.	DISBURSEMENTS.		RECEIPTS.	
	1898-1899.	1899-1900.	1898-1899.	1899-1900.
General.....	\$123,846 58	\$119,177 10	\$107,872 55	\$ 76,854 24
Contingent.....	14,569 72	10,602 88	77,896 24	39,802 69
Fire Department.....	114,049 42	118,948 10	96,199 73	106,568 06
Police Department.....	86,983 18	87,270 23	79,402 09	75,898 65
Poor Department.....	15,509 34	15,527 06	10,106 34	10,145 58
Police and Fire Pension.....	249 96	249 96	295 00	286 00
Market.....	2,838 75	2,204 97	6,412 50	4,593 34
Greenhouse.....	4,201 87	4,644 00	3,961 15	5,073 85
Library.....	1,366 46	1,431 86	1,412 45	1,456 65
Road Roller.....	4,918 83	5,708 18	3,116 10	7,009 61
Redemption on Deposit.....		32 66		47 29
Health.....		10,628 38		12,002 50
Bridge Street Bridge Approach.....		268 82		5,000 00
Valley City Cemetery.....	14,998 48	14,490 59	13,466 54	14,596 51
Greenwood Cemetery.....	3,839 89	4,336 71	4,127 75	3,777 00
Water Works.....	31,361 84	49,414 91	33,060 00	8,517 75
Water Works Income.....	40,001 57	54,370 43	91,915 28	127,171 67
John Ball Park.....	11,871 31	18,906 41	7,443 88	20,459 78
Lincoln Park.....	1,715 79	2,584 33	1,008 00	2,508 00
Antoine Campau Park.....		4,727 92		4 00
Park.....	4,731 19	5,229 46	4,075 00	4,802 25
John Ball Park Extension.....	4,530 36	4,841 67	5,566 00	5,605 00
Police Court.....	2,224 48	3,106 61	1,535 18	2,714 92
Justice Court.....	3,660 68	3,624 63	2,069 51	4,842 67
Superior Court.....	3,450 26	3,906 13	3,312 30	2,229 45
Public Lighting.....	40,724 99	37,442 14	35,012 50	35,021 20
Electric Lighting.....	60,266 90	125,084 37		29,004 48
Bridge.....	2,735 81	3,664 64	3,505 18	3,687 67
First Sewer District.....	2,215 39	2,759 36	2,548 17	2,567 00
Second Sewer District.....	2,502 94	2,128 72	1,545 17	1,335 00
Third Sewer District.....	5,848 80	3,462 43	4,075 00	4,055 00
First Ward Highway.....	3,550 70	4,604 51	4,000 70	5,489 54
Second Ward Highway.....	4,777 42	6,623 97	5,008 00	6,439 55
Third Ward Highway.....	3,458 50	5,537 70	5,012 70	4,108 01
Fourth Ward Highway.....	5,148 30	6,473 23	6,013 00	7,085 65
Fifth Ward Highway.....	3,976 35	3,490 93	3,500 00	3,008 34
Sixth Ward Highway.....	2,513 71	3,110 97	2,543 88	3,000 00
Seventh Ward Highway.....	2,691 99	3,067 86	3,051 95	2,500 00
Eighth Ward Highway.....	1,975 44	1,804 98	2,032 92	2,000 00
Ninth Ward Highway.....	2,781 90	3,123 50	3,031 75	3,000 00
Tenth Ward Highway.....	2,631 30	3,471 76	3,403 70	3,198 40
Eleventh Ward Highway.....	2,480 83	3,232 14	3,513 95	3,021 00
Twelfth Ward Highway.....	1,932 38	2,630 52	2,000 70	2,503 50
Water Works Interest.....	39,261 98	39,261 96	35,131 60	
City Hall Interest.....	7,500 00	7,500 00	7,500 00	7,500 00
Special Bonds Interest.....	6,021 00	6,021 00	6,021 00	6,021 00
Market Bonds Interest.....	3,007 00	3,007 00	3,007 00	
Electric Light Bonds Interest.....	2,508 75	5,017 50	5,000 00	5,000 00
Garbage Burner.....	15,328 53			
Board of Education.....				62 14
Engine House No. 10.....		5,000 00		
Board of Education Moneys In General and Contingent Funds.....				69,738 41
Totals.....	\$721,848 24	\$826,760 19	\$705,803 90	\$733,755 59

BOARD OF PUBLIC WORKS.

WATER RATES—1899-1900.

West District.....	{	Schedule	\$ 17,924 33.....	{	\$ 23,866 23
		Meter.....	4,941 90.....		
South District.....	{	Schedule	24,040 03.....	{	28,174 38
		Meter	4,134 35.....		
North District.....	{	Schedule	31,421 68.....	{	39,584 14
		Meter	8,162 46.....		
					<hr/>
					\$ 90,624 75

COLLECTIONS.

West District.....	{	Schedule	\$ 5,241 16.....	{	\$ 7,629 12
		Meter	2,387 96.....		
South District.....	{	Schedule	5,067 10.....	{	8,060 07
		Meter	2,982 97.....		
North District.....	{	Schedule	9,534 44.....	{	15,528 11
		Meter	6,293 67.....		
By balance uncollected.....					59,117 45
					<hr/>
					\$ 90,624 75

REVENUE.

Permits, miscellaneous collections.....	\$ 2,018 12
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SEVENTH SERIES SPECIAL IMPROVEMENTS.

NAME OF IMPROVEMENT	Contract Price	Paid on Contract	Paid for Inspect'n	TOTAL
Crawford St., Madison to V. C. Cemetery ...	\$ 2,747 00	\$ 2,574 50	\$ 83 93	\$ 2,658 43
Crescent Ave. & Bostwick, Division to Lyon	3,790 00	3,550 00	151 24	3,701 24
Dickinson Ave., Jefferson to Madison Ave...	1,980 00	1,010 00	50 38	1,060 38
Elm Ave., Division to Buchanan	3,723 00	3,590 00	80 11	3 670 11
Fulton (E.) St., Jeffersen Ave. to Union....	10,800 00	10,813 09	179 20	10,992 29
Fair St., Jefferson Ave. to Division	3,345 00	3,255 00	49 95	3,304 95
FitzHugh St., Lake to Hermitage	2,674 00	2,260 00	71 54	2,331 54
Grandville Ave., Hall to Clyde Park Ave....	9,950 00	8,746 75	Ex. la. 12 00 202 49	8,961 24
Godfrey Ave., G. R. & I. to Market	2,940 00	120 00	.....	120 00
Hailey Place, Division to Jefferson	2,205 00	2,280 00	111 61	2,391 61
Home Ave., Jefferson to Division	3,514 30	3,350 00	63 45	3,413 45
Highland Ave., Division to Central	1,348 68	1,343 18	48 15	1,391 33
LaBelle Ave., Division to Ionia	1,863 55	1,535 00	42 51	1,577 51
Mills St., Madison Ave. to College	3,595 00	1,917 50	19 13	1,936 63
Palmer Ave., Canal to Plainfield	9,500 00	7,203 00	167 50	7,370 50
Robey St., Wealthy Ave. to end of street ...	1,990 00	1,813 00	65 26	1,878 26
Sibley St.	1,557 00	637 50	.....	637 50
Steele Ave., Hall to Stevens	4,183 00	2,000 00	54 88	2,054 88
Stewart Ave., Division to Buchanan	3,790 00	3,657 50	80 11	3,737 61
Thomas St., Madison to Union	3,938 00	3,950 75	80 10	4,030 85
Turner St., W. Bridge to Seventh	11,233 25	9,842 70	249 76	10,092 46
Turner St., Seventh to North	22,634 00	4,206 00	141 20	4,347 20
Tamarack St., Walker to Twelfth	3,399 00	2,818 90	69 30	2,888 20
Travis Ave., Canal to Watrous	7,200 00	1,590 00	20 45	2,010 45
Tenth St., Alpine Ave. to Pine	4,349 00	2,462 00	57 37	2,519 37
Watson St., Lane to Park	6,800 00	4,244 00	169 54	4,412 54
Rose St., Division to Buchanan	3,707 64	3,109 70	67 05	3,176 75
Prospect (N.) St., Fulton to Fountain .. .	6,655 00	6,697 50	90 00	6,787 50
Sweet St.	2,025 00	.....	.....	.....
Total.	\$ 147,436 42	\$ 100,977 57	\$ 2,477 21	\$ 103,454 78

RECAPITULATION.

Payments on contracts	\$ 100,977 57	
Amount due on contracts	44,458 85	
Amount paid inspectors	2,477 21	
Cash available.....	55,316 52	
		\$ 205,230 15
Received from sale of bonds, 1899.....	\$ 205,230 15	
		\$ 205,230 15

Barker Place Sewer.

Dr.

1899.		
July 31 to Dec. 18. To disbursements	\$ 300 75	
1900.		
February 17. To transfer to general fund	51 67	
		\$ 352 42

Cr.

1899.		
October 7 to January 13, 1900 By collections	\$ 352 42	
		\$ 352 42

Barth Street Sewer, Wealthy Avenue to Logan.

Dr.

1899.		
June 9, to transfer to general fund.	\$ 71 26	
		\$ 71 26

Cr.

1899.		
April 18, by balance	\$ 71 26	
		\$ 71 26

East Bridge Street Opening.

Dr.

1899.		
June 26, to disbursements.....	\$ 1,692 51	
1900.		
February 17, to transfer to general fund	19 76	
to transfer to contingent fund	1,206 80	
		\$ 2,918 07

Cr

1900.		
June 13 to January 6, 1900, by collections....	\$ 1,706 33	
June 28, by transfer from contingent fund	1,205 80	
December 15, by transfer from general fund	5 94	
		\$ 2,918 07

REPORT OF COMPTROLLER,

Butterworth Avenue Sewer.

Dr.

1899.		
April 18, to balance	\$	199 24
June 16, to transfer to general fund		85 81
		<hr/>
	\$	285 05

Cr.

1899.		
June 1, by collections	\$	285 05
		<hr/>
	\$	285 05

Buckeye Street Opening.

Dr.

1899.		
May 8-15, to disbursements	\$	1,000 00
1900.		
February 17, to transfer to general fund		2 60
		<hr/>
	\$	1,002 60

Cr.

1899.		
July 3 to January 31, 1900, by collections	\$	996 00
1900.		
January 31, by transfer from general fund		36 60
		<hr/>
	\$	1,002 60

Campau Street Improvement, Louis to Fulton.

Dr.

1899.		
July 31 to January 8, 1900, to disbursements	\$	3,293 73
February 1 to April 19, 1900, to disbursements		1,750 00
1900.		
April 19, to balance		4,570 98
		<hr/>
	\$	9,614 71

Cr.

1899.		
October 27 to November 17, by collections	\$	1,333 25
1900.		
February 1, to April 19, by collections		8,281 46
		<hr/>
	\$	9,614 71

Campau Street Improvement.

Dr.

1899.		
June 9, to transfer to general fund	\$	186 00
		<hr/>
	\$	186 00

Cr.

1899	
April 18, by balance	\$ 186 00
	<hr/>
	\$ 186 00

Campau Street Sewer, Fulton to Louis.

Dr.

December 4 to January 15, 1900, to disbursements	\$ 1 159 00
February 1 to April 19, to disbursements	200 26
April 19. to balance	214 21
	<hr/>
	\$ 1,573 47

Cr.

1900.	
January 5-31, by collections	1,186 68
February 1 to April 19, by collections.....	536 79
	<hr/>
	\$ 1,673 47

Canal Street Improvement, Leonard to Coldbrook.

Dr.

1899.	
June 9, to transfer to general fund	163 38
	<u>163 38</u>

Cr.

1899		
April 18., by balance	\$	163 38
		<u>163 38</u>

Chestnut Street Sewer.

Dr.

1999.		
August 28 to December 18, to disbursements	\$	661 91
1900.		
April 18, to transfer to general fund		60 71
		<hr/>
	\$	722 62

Cr.

1899.		
October 14 to January 13, 1900, by collections.....	\$	665 27
1900.		
February 1 to April 19, by collections.....		57 35
		<hr/>

Sewer in Block 6, Coit & Co.'s Addition.

Dr.

1900.			
June 12, to disbursements.....	\$	38	33
June 15, to transfer to general fund.....		26	40
			<u>64 73</u>

REPORT OF COMPTROLLER,

		Cr.	
1899.			
April 18, by balance	\$	33 38	
June 5, by collections.		31 35	
			\$ 64 73

Colfax Street and Colt Avenue Sewer.

		Dr.	
1899.			
September 11 to December 18, to disbursements	\$	790 27	
			\$ 790 27
		Cr.	
1899.			
December 16 to January 27, 1900, by collections	\$	514 43	
1900.			
February 1 to April 19, by collections		180 55	
April 19, by balance		95 29	
			\$ 790 27

Courtney Street Sewer, Alpine Avenue to 700 feet west

		Dr.	
1899.			
June 9, to transfer to general fund	\$	49 78	
			\$ 49 78
		Cr.	
1899.			
April 18, by balance	\$	34 75	
June 1, by collections		15 03	
			\$ 49 78

Courtney Street Sewer, 700 feet to 1,000 feet west of Alpine Ave.

		Dr.	
1899.			
June 9, to transfer to general fund	\$	62 42	
			\$ 62 42
		Cr.	
1899.			
April 18, by balance	\$	62 42	
			\$ 62 42

South College Avenue Improvement.

		Dr.	
1899.			
September 25 to January 15, 1900, to disbursements	\$	3,910 57	
1900.			
April 19, to balance		1,221 54	
			\$ 5,132 11

Cr.

1899.		
December 16 to January 13, 1900, by collections	\$	4,207 50
1900.		
February 1 to April 12, by collections.....		924 61
	\$	5,132 11

Diamond and Fisher streets Sewer.

Dr.

1899.		
May 22 to December 18, to disbursements.....	\$	843 16
1900.		
February 17, to transfer to general fund.....		131 91
	\$	975 07

Cr.

1899.		
July 7 to January 31, 1900, by collections.....	\$	973 91
1900.		
January 31, by transfer from general fund		1 16
	\$	975 07

Diamond, Fountain and Holland streets Sewer.

Dr.

1899.		
May 8, to disbursements	\$	93 00
June 15, to transfer to general fund		92 08
	\$	185 08

Cr.

1899.		
April 18, by balance	\$	15 28
May 26, by transfer from general fund.....		44 70
June 1-5, by collections		125 10
	\$	185 08

Dolbee street Opening.

Dr.

1899.		
July 10, to disbursements.....	\$	431 88
April 13, to transfer to general fund.....		14 45
	\$	446 33

Cr.

1899.		
September 26 to January 6, 1900, by collections	\$	410 01
1900.		
February 1 to April 12, by collections		10 59
March 15, by transfer from general fund.....		25 73
	\$	446 33

Ethel Avenue Sewer, Wealthy Avenue to Sherman.

Dr.

1899.		
May 1 to August 28, to disbursements	\$	1,228 00
February 17, to transfer to general fund		84 06
		<hr/>
	\$	1,312 06

Cr.

1899.		
June 25 to January 6, 1900, by collections	\$	1,288 85
December 15, by transfer from general fund		28 20
		<hr/>
	\$	1,312 06

Euclid Avenue Alley Opening.

Dr.

1899.		
September 30, to transfer to contingent fund	\$	25 90
to transfer to general fund		8 33
		<hr/>
	\$	28 53

Cr.

1899.		
April 18, by balance	\$	10 06
May 1 to August 2, by collections		18 47
		<hr/>
	\$	28 53

Fairbanks and Clinton streets Sewer.

Dr.

1899.		
June 9, to transfer to general fund	\$	75 06
		<hr/>
	\$	75 06

Cr.

1899.		
April 18, by balance	\$	21 06
June 1, by collections		54 00
		<hr/>
	\$	75 06

East Fulton street Sewer, Barclay to Lafayette.

Dr.

1899.		
July 3 to August 14, to disbursements	\$	813 43
1900.		
February 17, to transfer to general fund		62 33
		<hr/>
	\$	875 76

Cr.

1899.		
September 9 to January 13, 1900, by collections	\$	875 76
		<hr/>
	\$	875 76

East Fulton street Improvement, Division to Commerce.

Dr.

1899.		
May 8 to October 13, to disbursements	\$	2,251 93
October 16, to transfer to general fund		16 03
		<hr/>
	\$	2,268 56

Cr.

1899.		
April 19 to May 31, by collections	\$	2,268 56
		<hr/>
	\$	2,268 56

Grand Avenue and Lyon street Sewer.

Dr.

1899.		
May 29 to September 11, to disbursements	\$	816 05
1900.		
April 13, to transfer to general fund		91 73
		<hr/>
	\$	907 78

Cr.

1899.		
August 18 to January 13, 1900, by collections	\$	575 09
1900		
February 1 to April 19, by collections		111 71
March 15, by transfer from general fund		220 38
		<hr/>
	\$	907 78

Grand and Crescent Avenues Sewer.

Dr.

1899.		
April 18, to balance,	\$	163 71
June 9, to transfer to general fund		192 01
		<hr/>
	\$	356 72

Cr.

1899.		
May 26, by transfer from general fund	\$	183 90
June 5, by collections		173 82
		<hr/>
	\$	356 72

Gelock Avenue and Dunham street Sewer.

Dr.

1899.		
April 18, to balance	\$	124 35
June 16, to transfer to general fund		72 00
		<hr/>
	\$	196 35

Cr.

1899.		
June 1-5, by collections	\$	196 35
		<hr/>
	\$	196 35

Godfrey Avenue Opening.

Dr.

1899.		
July 10 to December 30, to disbursements.....	\$	753 84
December 30, to transfer to general fund.....		3 43
December 30, to transfer to contingent fund.....		1 02
		<hr/>
	\$	758 29

Cr.

1899.		
April 19 to September 5, by collections.....	\$	757 27
August 11, by transfer from contingent fund		1 02
		<hr/>
	\$	758 29

Haitley Place Sewer, Division street to Cornwall Avenue.

Dr.

1899.		
May 8 to June 12, to disbursements.....	\$	235 20
1900.		
February 17, to transfer to general fund		46 16
		<hr/>
	\$	281 36

Cr.

1899.		
July 1 to January 13, 1903, by collections.....	\$	281 36
		<hr/>
	\$	281 36

Highland Avenue Opening.

Dr.

1899.		
April 18, to balance.....	\$	1,062 17
November 29, to transfer to general fund.....		67 96
November 29, to transfer to contingent fund.....		1,062 17
		<hr/>
	\$	2,192 30

Cr.

1899.		
May 26, by transfer from contingent fund.....	\$	1,062 17
April 19 to November 8, collections.....		937 53
October 19, by transfer from general fund		192 60
		<hr/>
	\$	2,192 30

Ives Avenue Sewer, Butterworth to Park.

Dr.

1899.		
April 17, to balance.....	\$	53 68
June 5, to transfer to general fund		86 91
		<hr/>
	\$	140 59

Cr.

1899.		
June 1-5, by collections....	\$ 140 52	
		\$ 140 52

South Ionia street Sewer, Fourth to Fifth Avenues.

Dr.

1899.		
June 5, to disbursements.....	\$ 10 00	
June 9, to transfer to general fund....	50 52	
		\$ 60 52

Cr.

1899.		
April 18, by balance	\$ 25 92	
May 1-15, by collections	33 60	
		\$ 60 52

North Ionia street Alley Sewer.

Dr.

1899.		
August 21 28, to disbursements	\$ 362 00	
1900.		
April 12, to transfer to general fund	68 06	
		\$ 430 06

Cr.

1899.		
October 11 to November 29, by collections.....	\$ 319 85	
1900.		
February 1 to April 19, by collections.....	60 48	
April 12, by transfer from general fund.....	49 73	
		\$ 430 06

LaBelle Avenue sewer, Division to Jefferson Avenue.

Dr.

1899.		
June 9, to transfer to general fund	\$ 51 18	
		\$ 51 18

Cr.

1899.		
April 18, by balance	\$ 14 18	
June 1, by collections	37 00	
		\$ 51 18

Logan and Charles streets Sewer.

Dr.

1899.		
April 18, to disbursements	\$ 17 33	
		\$ 17 33

REPORT OF COMPTROLLER,

Cr.

1899.		
April 19, by balance	\$	17 33
		<hr/>
	\$	17 33

Marion street Improvement, Butterworth Ave. to L. S. & M. S. Ry.

Dr.

1899.		
May 8 to December 18, to disbursements	\$	1,384 51
1900.		
April 19, to balance		167 31
		<hr/>
	\$	1,551 82

Cr.

1899.		
November 25 to January 6, 1900, by collections	\$	1,551 82
		<hr/>
	\$	1,551 82

Marion street Sewer, Chatham to Bridge.

Dr.

1899.		
May 15 to December 18, to disbursements	\$	356 50
November 29, to transfer to general fund		56 81
		<hr/>
	\$	413 31

Cr.

1899.		
July 5 to December 30, by collections	\$	403 31
December 30, by transfer from general fund		10 00
		<hr/>
	\$	413 31

Marion street Sewer, Butterworth to R. R.

Dr.

1899.		
April 24 to July 3, to disbursements	\$	291 45
November 29, to transfer to general fund		41 54
		<hr/>
	\$	332 99

Cr.

1899.		
July 18 to October 14, by collections	\$	332 99
		<hr/>
	\$	332 99

Myrtle and Hamilton streets Sewer.

Dr.

1899.		
June 19 to December 26, to disbursements	\$	2,506 91
1900.		
April 13, to transfer to general fund		107 39
March 14, to disbursements		6 00
		<hr/>
	\$	2,620 30

Cr.

1899.		
September 11 to January 31, 1900, by collections	\$	1,079 35
1900.		
April 13, by collections		731 55
April 13, by transfer from general fund		209 40
		<hr/>
	\$	2,020 30

Ottawa street Sewer, Lyon to Bridge.

Dr.

1899.		
June 19 to August 28, to disbursements	\$	1,147 40
		<hr/>
	\$	1,147 40

Cr.

1899.		
August 7 to November 29, by collections	\$	1,126 77
November 29, by transfer from general fund		20 63
		<hr/>
	\$	1,147 40

Prince street Sewer.

Dr.

1899.		
April 24, to rebate	\$	4 00
June 9, to transfer to general fund		80 21
		<hr/>
	\$	84 21

Cr.

1899.		
April 18, by balance ..	\$	59 46
June 1, by collections		31 75
		<hr/>
	\$	84 21

Pine street Sewer.

Dr.

1899.		
October 23 to November 13, to disbursements	\$	337 58
1900.		
April 13, to transfer to general fund		67 03
		<hr/>
	\$	404 61

Cr.

1900.		
January 8-27, by collections	\$	236 01
February 1 to April 19, by collections		168 60
		<hr/>
	\$	404 61

Robey street Sewer.

Dr.

1899.		
September 11 to December 26, to disbursements	\$	429 99
1900.		
April 13, to transfer to general fund		32 21
		<hr/>
	\$	462 20

REPORT OF COMPTROLLER,

Dr.

1899.		
October 6-25, by collections.....	\$	429 00
1900.		
February 1 to April 19, by collections ..		33 90
		<hr/>
	\$	462 90

Robinson Avenue and School streets Sewer.

Dr.

1899.		
June 9, to transfer to general fund.....	\$	92 92
		<hr/>
	\$	92 92

Cr.

1899.		
April 18, by balance.....	\$	92 92
		<hr/>
	\$	92 92

Sweet street Opening.

1899.		
June 9, to transfer to general fund	\$	16 25
June 9, to transfer to Sweet street opening.....		202 85
		<hr/>
	\$	219 10

Sweet street Sewer, Plainfield to North.

Dr.

1899.		
April 24, to disbursements.....	\$	37 48
June 9, to transfer to general fund.....		64 69
		<hr/>
	\$	102 11

Cr.

1899.		
April 18, by balance.....	\$	27 97
May 26, by transfer from general fund		35 04
June 1, by collections		30 10
		<hr/>
	\$	108 11

Sheldon street Sewer.

Dr.

1899.		
September 30, to transfer to general fund	\$	148 24
		<hr/>
	\$	148 24

Cr.

1899.		
April 18, by balance	\$	28 07
August 2, by collections		120 17
		<hr/>
	\$	148 24

Sibley street Opening.

Dr.

1899.		
July 10 to November 13, to disbursements	\$	1,181 90
1900.		
February 17, to transfer to general fund.....		12 73
February 17, to transfer to contingent fund.....		75 65
		<hr/>
	\$	1,270 28

Cr.

1899.		
June 13 to January 6, 1900, by collections....	\$	1,189 53
August 11, by transfer from contingent fund.....		75 65
December 15, by transfer from general fund.....		5 10
		<hr/>
	\$	1,270 28

Travis Avenue Sewer.

Dr.

1899.		
August 28 to November 30, to disbursements.....	\$	438 13
1900.		
April 13, to transfer to general fund.....		70 65
		<hr/>
	\$	508 69

Cr.

1899.		
October 12 to January 31, 1900, by collections	\$	450 93
1900.		
February 1 to April 19, by transfer from general fund		57 76
		<hr/>
	\$	508 69

Taylor street and other streets Sewer.

Dr.

1899.		
July 3 to December 13, to disbursements.....	\$	4,168 19
1900.		
April 13, to transfer to general fund.....		360 07
		<hr/>
	\$	4,528 26

Cr.

1899.		
September 11 to January 20, 1900, by collections	\$	4,483 64
1900.		
February 1 to April 19, by collections.....		44 69
		<hr/>
	\$	4,528 26

Terrace Avenue Sewer.

Dr.

1899.		
November 6 to January 22, 1900, to disbursements.....	\$	392 89
1900.		
April 19, to balance.....		126 94
		<hr/>
	\$	519 83

Cr.

1900.		
January 8-27, by collections	\$	471 50
February 1 to April 19, by collections.....		48 83
		<hr/>
	\$	519 83

Twelfth Avenue Sewer.

Dr.

1899.		
July 31 to December 18, to disbursements.....	\$	573 98
November 27, to transfer to general fund.....		56 08
		<hr/>
	\$	630 01

Cr.

1899.		
September 9 to December 30, by collections	\$	620 01
December 30, by transfers from general fund		10 00
		<hr/>
	\$	630 01

North Arm of Third Avenue Improvement.

Dr.

1899.		
September 22 to December 11, to disbursements.....	\$	429 26
		<hr/>
	\$	429 26

Cr.

1900.		
January 8-31, by collections	\$	216 06
February 1 to April 19, by collections		138 28
April 19, by balance		74 99
		<hr/>
	\$	429 26

Turner and Myrtle streets Sewer.

Dr.

1899.		
May 8 to August 28, to disbursements.....	\$	2,820 39
1900.		
March 14, to disbursements.		12 03
February 1 to April 19, to transfer to general fund.....		110 13
		<hr/>
	\$	2,942 52

Cr.

1899.		
August 3 to January 13, 1900, by collections.....	\$	2,746 37
1900.		
February 1, to April 19, by collections.....		196 15
		<hr/>
	\$	2,942 52

Watson street Opening.

Dr.

1899.		
June 9, to transfer to general fund	\$	19 64
June 9, to transfer to contingent fund.....		59 16
		<hr/>
	\$	78 80

Cr.

1899.		
April 18, by balance.....		78 80
		<hr/>
	\$	78 80

Winsor Place Sewer.

Dr.

1899.		
April 19, to balance	\$	10 72
June 9, to transfer to general fund.....		71 92
		<hr/>
	\$	82 64

Cr.

1899.		
June 11, by collections	\$	82 64
		<hr/>
	\$	82 64

Ames street Improvement.

Dr.

1899.		
June 30, to transfers to street improvement bonds	\$	15 48
		<hr/>
	\$	15 48

Cr.

1899.		
June 1-5, by collections.....	\$	15 48
		<hr/>
	\$	15 48

Bates street Improvement.

Dr.

1899.		
May 31 to November 29, to transfers to street imp. bonds	\$	2,313 16
		<hr/>
	\$	2,313 16

Cr.

1899.		
April 19 to November 3, by collections	\$	2,362 49
October 19, by transfer from general fund.....		50 67
		<hr/>
	\$	2,313 16

Baxter street Improvement, East to Fuller.**Dr.**

1899.		
June 30 to December 30, to transfers to street imp. bonds	\$	1,294 05
1900.		
February 1 to April 19, to transfers to street imp. bonds		231 10
	\$	1,455 15

Cr.

1899.		
June 1 to December 29, by collections	\$	1,294 05
March 15, by transfers from general fund		21 06
1900.		
February 1 to April 19, by collections		210 04
	\$	1,455 15

Baxter street Improvement, Henry to East.**Dr.**

1899.		
May 31 to November 29, to transfer to street improvement bonds	\$	254 09
1900.		
February 1 to April 19, to transfer to street improvement bonds.		72 52
	\$	327 21

Cr.

1899.		
April 19 to November 17, by collections	\$	239 58
August 11, by transfer from general fund		15 11
1900.		
February 1 to April 19, by collections		72 52
	\$	327 21

Barth street Improvement.**Dr.**

April 24 to January 31, 1900, to disbursements	\$	305 44
April 24 to January 31, 1900, to transfers to street imp. bonds ...		264 61
1900.		
February 1 to April 19, to transfers to street imp. bonds		178 38
	\$	748 43

Cr.

1899.		
May 31 to June 30, by transfers from street improvement bonds.	\$	305 44
1900.		
December 9 to January 27, by collections		264 61
February 1 to April 19, by collections		178 38
	\$	748 43

East Bridge street Paving, Barclay to Lafayette.

1899.

May 31, to transfer to street improvement bonds.....\$ 649 88

1900.

February 1 to April 19, to transfer to street imp. bonds 353 39

\$ 1,002 22

Cr.

1899.

April 19 to May 15, by collections.....\$ 649 88

1900.

February 1 to April 19, by collections..... 352 39

\$ 1,002 22

East Bridge street Improvement, Canal to Ottawa.

Dr.

1899.

May 31, to transfer to street improvement bonds.....\$ 712 82

1900.

February 1 to April 19, to transfer to street improvement bonds. 27 87

\$ 740 39

Cr.

1899.

May 1-31, by collections.....\$ 712 82

1900.

February 1 to April 19, by collections..... 27 87

\$ 740 39

Butterworth Avenue Improvement.

Dr.

1899.

June 30, to transfer to street improvement bonds\$ 237 92

\$ 237 92

Cr.

1899.

June 1, by collections\$ 237 92

\$ 237 92

Caulfield Avenue Improvement.

Dr.

1899.

May 8 to January 31, 1901, to disbursements.....\$ 2,156 00

May 8 to January 31, 1900, to transfers to street imp. bonds 1,140 97

1900.

February 1 to April 19, to transfers to street imp bonds.....\$ 157 02

\$ 3,453 99

REPORT OF COMPTROLLER,

Cr.

1899.		
May 1 to January 31, 1900, by collections	\$	1,140 97
May 1 to January 31, 1900, by transfer from street imp. bonds ..		2,156 00
1900.		
February 1 to April 19, by collections		157 08
	\$	3,453 99

Crawford street Improvement.

Dr.

1899.		
August 28 to January 31, 1900, to disbursements	\$	2,658 43
January 31, 1900, to transfers to street imp. bonds		1,190 79
1900.		
February 1 to April 19, to transfers to street imp. bonds		149 37
	\$	4,008 59

Cr.

1899.		
August 31 to January 29, 1900, by collections	\$	1,190 79
January 29, 1900, by transfers from street improvement bonds ..		2,658 43
1900.		
February 1 to April 19, by collections		159 37
	\$	4,008 59

Cherry street Improvement, Ellsworth to Ottawa.

Dr.

1899.		
June 9 to January 31, 1900, to disbursements	\$	146 78
to transfers to street imp. bonds		477 89
1900.		
February 1 to April 19, to transfers to street imp. bonds		158 10
	\$	782 77

Cr.

1899.		
June 15 to January 13, 1900, by collections	\$	452 46
June 16, by transfer from general fund		25 43
June 30, by transfer from street improvement bonds		146 78
1900.		
February 1 to April 19, by collections		158 10
	\$	782 77

Crescent Avenue and Bostwick street Improvement.

Dr.

1899.		
August 28 to December 30, to disbursements.....	\$	3,701 24
August 28 to December 30, to transfer to street imp. bonds.....		905 67
1900.		
February 1 to April 19, to transfers to street improvement bonds		<u>231 86</u>
	\$	4,838 77

Cr.

1899.		
August 31 to December 29, by collections.....	\$	905 67
December 29, by transfers from street imp. bonds.....		3,701 24
1900.		
February 1 to April 19, by collections		<u>231 86</u>
	\$	4,838 77

Crescent Avenue Improvement.

Dr.

1899.		
May 1 to January 31, 1900, to disbursements... ..	\$	3,395 44
1900.		
January 31, to transfers to street improvement bonds.....		5,270 06
February 1 to April 19, to transfers to street improvement bonds		<u>141 21</u>
	\$	8,737 31

Cr.

1899.		
May 26 to January 31, 1900, by collections... ..	\$	5,210 49
1900.		
May 26, by transfer from general fund		60 17
May 31, by transfer from street improvement bonds.....		3,325 44
February 1 to April 19, by collections		<u>141 21</u>
	\$	8,737 31

Cherry street and Lake Avenue Improvement.

Dr.

1899.		
May 31 to August 31, to transfers to street improvement bonds..	\$	631 12
	\$	631 12

Cr.

1899.		
April 19 to August 2, by collections.....	\$	608 82
July 14, by transfer from general fund.....		<u>22 30</u>
	\$	631 12

North Coit Improvement, Sweet to Deane.

Dr.

1899.		
June 30 to July 31, to transfers to street improvement bonds.....	\$	47 03
	\$	47 03

REPORT OF COMPTROLLER,

Cr.

1899.

June 1 to July 14, by collections	\$	87 56	
July 14, by transfer from general fund		9 47	
			\$ 47 03

Crosby street Improvement.

Dr.

1899.

May 31 to August 31, to transfers to street improvement bonds..	\$	968 80	
			\$ 968 80

Cr.

1899.

April 19 to August 11, by collections	\$	880 96	
August 11, by transfer from general fund		137 86	
			\$ 968 80

Colt Avenue Improvement, Bridge to Fairbanks.

Dr.

1899.

May 8 to January 31, 1900, to disbursements	\$	513 05	
May 8 to January 31, 1900, to transfers to street imp. bonds		458 79	

1900.

February 1 to April 19, to transfers to street imp. bonds		757 31	
			\$ 1,729 18

Cr.

1899.

May 31 to January 27, 1900, by collections	\$	458 79	
January 27, 1900, by transfers from street imp. bonds		513 05	

1900.

February 1 to April 19, by collections		757 31	
			\$ 1,729 18

Dayton street Sewer.

Dr.

1899.

May 31 to June 30, to transfers to street improvement bonds	\$	23 07	
			\$ 23 07

Cr.

1899.

May 26 to June 5, by collections	\$	14 74	
May 26, by transfer from general fund		7 33	
			\$ 32 07

Dennis street Improvement.

Dr.

1899.		
July 31 to December 30, to transfer to street imp. bonds	\$	551 88
1900.		
February 1 to April 19, to transfer to street imp. bonds		51 06
		<hr/>
	\$	602 44

Cr.

1899.		
July 3 to December 8, by collections	\$	551 88
1900.		
February 1 to April 19, by transfer from general fund		51 06
		<hr/>
	\$	602 44

South Division street Improvement.

Dr.

1899.		
May 31 to January 31, 1900, to transfers to street imp. bonds	\$	2,446 50
		<hr/>
	\$	2,446 50

Cr.

1899.		
May 1 to January 31, 1900, by collections	\$	2,354 50
1900.		
January 31, by transfer from general fund	\$	92 00
		<hr/>
	\$	2,446 50

Diamond street Improvement, Lake to Fountain.

Dr.

1899.		
June 30, to transfer to street improvement bonds	\$	22 02
		<hr/>
	\$	22 02

Cr.

1899.		
June 1, by collections	\$	22 02
		<hr/>
	\$	22 02

Diamond street Improvement, Wealthy to Baxter.

Dr.

1899.		
May 31 to January 31, 1900, to transfers to street imp. bonds ...	\$	660 38
1900.		
February 1 to April 19, to transfers to street imp. bonds		59 86
		<hr/>
	\$	720 24

REPORT OF COMPTROLLER,

Cr.

1899.		
May 1 to January 27, 1900, by collections.....	\$	682 82
1900.		
May 26, by transfer from general fund.....	\$	27 56
February 1 to April 19, by transfer from general fund.....		59 86
		<hr/>
	\$	720 94

Dickinson Avenue Improvement.

Dr.

1899.		
August 28 to January 31, 1900, to disbursements	\$	1,060 38
1900.		
January 31, to transfers to street improvement bonds		497 20
February 1 to April 19, to transfers to street imp. bonds ...		71 28
		<hr/>
	\$	1,558 86

Cr.

1899.		
September 30 to January 31, 1900, by collections	\$	427 90
1900.		
January 31, by transfers from street imp. bonds.....		1,060 38
February 1 to April 19, by collections.....		71 28
		<hr/>
	\$	1,558 86

Eighth Avenue Improvement.

Dr.

1899.		
June 30 to January 31, 1900, to transfers to street imp. bonds.....	\$	166 84
1900.		
February 1 to April 19, to transfers to street imp. bonds		129 08
		<hr/>
	\$	295 92

Cr.

1899.		
June 16, by transfer from general fund	\$	25 47
June 19 to January 30, 1900, by collections.....		141 37
1900.		
February 1 to April 19, by collections		129 08
		<hr/>
	\$	295 92

Elizabeth street Improvement.

Dr.

1899.		
May 31 to June 30, to transfers to street improvement bonds.....	\$	69 77
		<hr/>
	\$	69 77

Cr.

1899.		
May 26, by transfer from general fund.....	\$	51 11
June 1, by collections.....		18 66
		<hr/>
	\$	69 77

Ethel Avenue Improvement, Logan to Sherman.

Dr.

1899.		
June 30, to transfer to street improvement bonds	\$	12 55
		<hr/>
	\$	12 55

Cr.

1899.		
June 1, by collections.	\$	12 55
		<hr/>
	\$	12 55

Elm Avenue Improvement.

Dr.

1899.		
August 14 to January 31, 1900, to disbursements	\$	3,670 11
to transfers to street imp. bonds.		1,054 57
1900.		
February 1 to April 19, to transfers to street imp. bonds		188 02
		<hr/>
	\$	4,862 70

Cr.

1899.		
August 31 to January 20, 1900, by collections	\$	1,054 57
by transfers from street improve-		
ment bonds.		3,670 11
1900.		
February 1 to April 19, by collections		188 02
		<hr/>
	\$	4,862 70

Euclid Avenue Improvement.

Dr.

1899.		
June 30 to December 30, to transfers to street imp. bonds	\$	523 99
1900.		
Feb 1 to April 19, to transfers to street imp. bonds		34 59
		<hr/>
	\$	558 58

Cr.

1899.		
June 1 to December 29, by collections	\$	523 99
1900.		
February 1 to April 19, by collections.....		34 34
March 15, by transfer from general fund.....		4 25
		<hr/>
	\$	558 58

Fair street Improvement, Division to Jefferson Avenue.**Dr.**

1899.		
July 17 to January 31, 1900, to disbursements.....	\$	3,304 95
to transfers to street imp. bonds.....		1,235 14
1900.		
February 1 to April 19, to transfers to street improvement bonds.....		74 91
	\$	4,615 00

Cr.

1899.		
August 31 to January 29, 1900, by collections.....	\$	1,235 14
by transfers from st. imp. bonds.....		3,304 95
1900.		
February 1 to April 19, by collections.....		74 91
	\$	4,615 00

FitzHugh street Improvement.**Dr.**

1899.		
September 25 to January 31, 1900, to disbursements....	\$	2 331 54
to transfers to st. imp. bonds..		913 71
1900.		
February 1, to April 19, to transfers to street imp. bonds.....		109 27
	\$	3,354 52

Cr.

1899.		
September 30 to January 31, 1900, by collections....	\$	913 71
by transfers to st. imp. bonds		2,331 54
1900.		
February 1 to April 19, by collections.....		109 27
	\$	3,354 52

Fuller street Improvement, Lake to Wealthy Avenue.**Dr.**

1899.		
May 8 to October 31, to disbursements.....		3,796 65
to transfers to street imp. bonds.....		1,478 24
1900.		
February 1 to April 19, to transfers to street imp. bonds.....		22 64
	\$	5,297 53

Cr.

1899.		
May 31 to October 20, by collections.....	\$	1,478 24
by transfers from street imp. bonds.....		3,796 65
1900.		
February 1 to April 19, by collections.....		22 64
	\$	5,297 53

Fulton street Improvement Jefferson to Union.**Dr.**

1899.		
July 19 to January 31, 1900, to disbursements.....	\$	10,992 29
to transfers to street imp. bonds.....		5,174 14
to transfers to street imp. bonds.....		644 58
1900.		
February 1 to April 19, to transfer to street imp. bonds		108 78
	\$	16,919 79

Cr.

1899.		
July 31 to January 31, 1900, by collections.....	\$	5,818 72
by transfers from st. imp. bonds.....		10,992 29
1900.		
February 1 to April 19, by collections.....		108 78
	\$	16,919 79

Grandville Avenue Improvement.**Dr.**

1899.		
July 17 to January 31, 1900, to disbursements.....	\$	8,961 24
to transfer to street imp. bonds.....		3,333 91
1900.		
February 1 to April 19, to transfer to street imp. bonds.....		159 56
	\$	12,444 71

Cr.

1899.		
August 31 to January 20, 1900, by collections	\$	3,333 91
by transfer from street imp. bonds		8,961 24
1900.		
February 1 to April 19, by collections		159 56
	\$	12,444 71

Grand Avenue Improvement, Fountain to Lyon.**Dr.**

1899.		
April 24 to January 1, 1900, to disbursements.....	\$	3,525 08
to transfer to street imp. bonds.....		1,132 89
	\$	4,657 97

Cr.

1899.		
May 1 to December 29, by collections.....	\$	950 66
by transfers from street imp. bonds.....		3,525 08
by transfers from general fund.....		182 23
	\$	4,657 97

REPORT OF COMPTROLLER,

Gilbert street Improvement.

Dr.

1899.		
June 30, to transfer to street improvement bonds	\$	45 78
		<hr/>
	\$	45 78

Cr.

1899.		
June 1, by collections	\$	45 78
		<hr/>
	\$	45 78

Grove street Improvement.

Dr.

1900.		
April 24 to January 31, 1900, to disbursements	\$	543 25
to transfers to street imp. bonds		502 90
1900.		
February 1 to April 19, to transfers to street imp. bonds		427 38
		<hr/>
	\$	1,563 53

Cr.

1899.		
May 26, by transfer from general fund.	\$	24 00
May 26 to January 31, 1900, by collections		568 90
by transfer from street imp. bonds ...		543 25
1900.		
February 1 to April 19, by collections		427 38
		<hr/>
	\$	1,563 53

Godfrey Avenue Improvement.

Dr.

1899.		
December 18, to disbursements	\$	120 00
1900.		
February 1 to, April 19, to transfers to street imp. bonds		580 00
		<hr/>
	\$	700 00

Cr.

1899.		
December 30, by transfers from street improvement bonds	\$	120 00
1900.		
February 1 to April 19, by collections		580 00
		<hr/>
	\$	700 00

Halfley Place Improvement, Division to Jefferson Avenue.

Dr.

1899.		
May 22 to January 31, 1900, to disbursements	\$	2,391 61
to transfers to street imp. bonds		1,040 77
1900.		
February 1 to April 19, to transfers to street imp. bonds		103 23
		<hr/>
	\$	3,535 61

Cr.

1899.		
July 29 to January 31, 1900, by collections	\$	1,040 77
by transfers from street imp. bonds ..		2,391 61
1900.		
February 1 to April 19, by collections		45 00
February 23, by transfer from general fund		58 23
	\$	2,535 61

Hermitage street Improvement.

Dr.

1899.		
April 24 to December 30, to disbursements	\$	3,271 89
to transfers to street imp. bonds		450 23
1900.		
February 1 to April 19, to transfers to street improvement bonds		409 64
	\$	4,131 76

Cr.

1899.		
April 19 to December 22, by collections	\$	333 65
by transfer from street imp. Bonds		3,271 89
October 19, by transfer from general fund		116 58
1900.		
February 1 to April 19, by collections		409 64
	\$	4,131 76

Helen Avenue Improvement.

Dr.

1899.		
May 31 to December 30, to transfers to street imp. bonds	\$	93 13
1900.		
February 1 to April 19, to transfers to street imp. bonds		232 93
	\$	326 06

Cr.

1899.		
May 1 to December 8, by collections	\$	93 13
1900.		
February 1 to April 19, by collections		232 93
	\$	326 06

Highland Avenue Improvement, Central to Division.

Dr.

1899.		
July 31 to January 31, 1900, to disbursements	\$	1,391 33
July 31 to January 31, 1900, to transfers to street imp. bonds		256 17
1900.		
February 1 to April 19, to transfers to street imp. bonds		61 26
	\$	1,708 76

Cr.

1899.		
August 31 to January 27, 1900, by collections	\$	256 17
August 31 to January 27, 1900, by transfers from st. imp. bonds..		1,391 33
1900.		
February 1 to April 19, by collections		41 32
April 12, to transfers from general fund		19 94
		<hr/>
	\$	1,708 76

Houseman street Improvement.

Dr.

1899.		
May 31 to June 30, to transfers to street imp. bonds.....	\$	103 23
		<hr/>
	\$	103 23

Cr.

1899.		
May 26, by transfer from general fund	\$	90 95
June 1-5, by collections		82 28
		<hr/>
	\$	103 23

Home Avenue Improvement, Division to Jefferson.

Dr.

1899.		
July 3 to January 31, 1900, to disbursements	\$	3,413 45
July 3 to January 31, 1900, to transfers to street imp. bonds.....		2,123 39
1900.		
February 1 to April 19, to transfers to street imp. bonds... ..		33 82
		<hr/>
	\$	5,570 66

Cr.

1899.		
July 31 to January 6, 1900, by collections	\$	2,123 39
July 31 to January 6, 1900, by transfers from street imp. bonds..		2,413 45
1900.		
February 1 to April 19, by collections		33 82
		<hr/>
	\$	5,570 66

Home Avenue Improvement, Ionia to Division streets.

Dr.

1899.		
May 31 to December 30, to transfers to street imp. bonds.....	\$	468 43
1900.		
February 1 to April 19, to transfers to street imp. bonds.....		35 08
		<hr/>
	\$	503 51

Cr.

1899.		
May 16 to December 15, by collections	\$	468 43
1900.		
February 1 to April 19, by collections		35 08
		<hr/>
	\$	503 51

North Ionia Street Improvement, Pearl to Crescent Avenue.**Dr.**

1899.		
August 31 to January 31, 1900, to transfers to street imp. bonds...	\$	224 98
1900.		
February 1 to April 19, to transfers to street imp. bonds		471 15
		<hr/>
	\$	696 07

Cr.

1899.		
August 19 to January 13, 1900, by collections	\$	224 98
1900.		
February 1 to April 19, by collections		471 15
		<hr/>
	\$	696 07

South Ionia street Improvement.**Dr.**

1899.		
May 31 to June 30, to transfers to street improvement bonds.	\$	123 53
		<hr/>
	\$	123 53

Cr.

1899.		
May 22, by transfer from general fund.	\$	17 48
June 1, by collections		106 05
		<hr/>
	\$	123 53

Ives Avenue Improvement.**Dr.**

1899.		
April 24 to January 31, 1900, to disbursements	\$	518 93
1900.		
January 31, to transfers to street improvement bonds ...		502 92
February 1 to April 19, to transfers to street imp. bonds		108 76
		<hr/>
	\$	1,129 91

Cr.

1899.		
May 1 to January 27, 1900, by collections	\$	489 31
May 1 to January 27, 1900, by transfers from street imp. bonds...		518 93
May 26, by transfers from general fund		19 91
1900.		
February 1 to April 19, by collections		108 76
		<hr/>
	\$	1,129 91

Jackson street Improvement.**Dr.**

1899.		
May 1 to November 6, to disbursements.	\$	1,126 44
May 31, to transfer to street improvement bonds		260 00
		<hr/>
	\$	1,386 48

REPORT OF COMPTROLLER,

Cr.

1899.

April 19 to November 29, by collections	\$	260 00
April 19 to November 29, by transfers from street imp. bonds....		1,126 48

\$ 1,386 48

Jefferson Avenue Improvement, Wealthy to Fifth.

Dr.

1899.

May 8 to January 31, 1900, to disbursements	\$	18,723 49
May 8 to January 31, 1900, to transfers to street imp. bonds . . .		8,308 66

1900.

February 1 to April 19, to transfers to street imp. bonds.....		676 59
--	--	--------

\$ 27,708 74

Cr.

1899.

May 31 to January 6, 1900, by collections	\$	8,308 66
May 31 to January 26, 1900, by transfers from street imp. bonds.		18,692 16

1900.

February 1 to April 19, by collections.....		707 92
---	--	--------

\$ 27,708 74

Jefferson Avenue Improvement, Cherry to Wealthy.

Dr.

1899.

October 31 to January 31, 1900, to transfer to street imp. bonds...	\$	802 57
---	----	--------

1900.

February 1 to April 19, to transfer to street imp. bonds.....		150 98
---	--	--------

\$ 1,013 55

Cr.

1899.

October 24 to January 27, 1900, by collections	\$	802 57
--	----	--------

1900.

February 1 to April 19, by collections..		150 98
--	--	--------

\$ 1,013 55

Jefferson Avenue Improvement, Hall to Burton.

Dr.

1899.

April 24 to January 31, 1900, to disbursements	\$	9,085 06
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April 24 to January 31, 1900, to transfers to street imp. bonds....		4,709 35
---	--	----------

1900.

February 1 to April 19, to transfers to street imp. bonds		174 13
---	--	--------

\$ 13,968 54

Cr.

1899.		
May 16 to January 27, 1900, by collections	\$	4,622 63
May 16 to January 27, 1900, by transfers from street imp. bonds ..		9,065 06
November 9, by transfer from general fund		86 72
1900.		
February 1 to April 19, by collections		174 13
	\$	13,968 54

Kalamazoo Avenue Improvement, Boston to Burton.

Dr.

1899.		
May 31 to January 31, 1900, to transfer to street imp. bonds	\$	1,059 49
1900.		
February 1 to April 19, to transfer to street improvement bonds ..		726 15
	\$	1,785 64

Cr.

1899.		
May 1 to January 31, 1900, by collections	\$	372 96
August 11, by transfer from general fund		686 54
1900.		
February 1 to April 19, by collections		726 15
	\$	1,785 64

Kalamazoo Avenue Improvement, Fifth to Boston.

Dr.

1899.		
May 31 to January 31, 1900, to transfers to street imp. bonds	\$	4,435 23
1900.		
January 2, to disbursements		2 50
February 1 to April 19, to transfers to street improvement bonds ..		199 94
	\$	4,630 67

Cr.

1899.		
April 19 to January 18, 1900, by collections	\$	3,146 37
October 19, by transfer from general fund		1,291 36
1900.		
February 1 to April 19, by collections		192 94
	\$	4,630 67

Lake Avenue Paving.

Dr.

1899.		
May 31 to November 29, to transfer to street imp. bonds	\$	4,465 88
1900.		
February 1 to April 19, to transfer to street imp. bonds		99 87
	\$	4,565 75

REPORT OF COMPTROLLER,

Cr.

1899.		
April 19 to November 3, by collections	\$	3,982 54
October 19, by transfer from general fund		483 34
1900.		
February 1 to April 19, by collections		99 87
		<hr/>
	\$	4,565 75

LaBelle Avenue Improvement.

Dr.

1899.		
August 14 to December 30, to disbursements	\$	1,577 51
August 14 to December 30, to transfers to street imp. bonds		555 56
1900.		
February 1 to April 19, to transfers to street imp. bonds		86 45
		<hr/>
	\$	2,169 52

Cr.

1899.		
August 31 to December 30, by collections	\$	555 56
August 31 to December 30, by transfers from street imp. bonds ..		1,577 51
1900.		
February 1 to April 19, by collections		26 05
March 15, by transfer from general fund		10 40
		<hr/>
	\$	2,169 52

Langdon street Improvement.

Dr.

1899.		
June 30, to transfer to street improvement bonds	\$	41 51
		<hr/>
	\$	41 51

Cr.

1899.		
June 1, by collections	\$	41 51
		<hr/>
	\$	41 51

East Leonard street Improvement.

Dr.

1899.		
June 30, to transfer to street improvement bonds	\$	156 53
		<hr/>
	\$	156 53

Cr.

1899.		
June 1, by collections	\$	156 53
		<hr/>
	\$	156 53

Livingston street Improvement, Bridge to Newberry.**Dr.**

1899.		
April 24 to January 31, 1900, to disbursements.....	\$	2,955 75
April 24 to January 31, 1900, to transfers to street imp. bonds....		2,311 45
1900.		
February 1 to April 19, to transfer to street improvement bonds.....		108 06
	\$	5,370 26

Cr.

1899.		
May 1 to January 31, 1900, by collections.....	\$	2,311 45
May 1 to January 31, by transfers from street imp. bonds.....		2,955 75
1900.		
February 1 to April 19, by collections.....		108 06
	\$	5,370 26

Luton Court Improvement.**Dr.**

1899.		
May 15 to January 31, 1900, to disbursements.....	\$	61 45
January 31, 1900, to transfer to street improvement bonds.....		333 48
1900.		
February 1 to April 19, to transfer to street imp. bonds.....		20 31
	\$	415 24

Cr.

1899.		
May 31 to January 18, 1900, by collections.....	\$	333 48
January 18, 1900, by transfer to street improvement bonds.....		61 45
1900.		
February 1 to April 19, by collections.....		20 31
	\$	415 24

Lyon street Improvement, Union to Houseman,**Dr.**

1900.		
April 24 to January 1, 1900, to disbursements.....	\$	6,384 42
April 24 to January 1, 1900, to transfers to street imp. bonds.....		1,889 92
1900.		
February 1 to April 19, to transfers to street imp. bonds.....	\$	41 34
	\$	8,315 68

Cr.

1899.		
May 1 to January 1, 1900, by collections.....	\$	1,553 16
May 1 to January 1, 1900, by transfer to street imp. bonds.....	\$	6,384 42
November 9, by transfers from general fund.....		336 76
1900.		
February 1 to April 19, by collections.....		41 34
	\$	8,315 68

REPORT OF COMPTROLLER,

Madison Avenue Improvement.

Dr.

1899.		
May 31 to January 31, 1900, to transfer to street imp. bonds.....	\$ 2,289 47	
1900.		
February 1 to April 19, to transfer to street imp. bonds.....	3,326 09	
		\$ 5,615 56

Cr.

1899.		
May 26 to January 27, 1900, by collections	\$ 2,009 14	
1900.		
January 27, by transfer from general fund	155 19	
January 27, by transfer from Madison street improvement.....	35 14	
February 1 to April 19, by collections.....	3,326 09	
		\$ 5,615 56

Madison street Improvement.

Dr.

1899.		
May 26, to transfer to Madison avenue improvement.....	\$ 35 14	
May 31 to January 31, 1900, to street improvement bonds.....	583 14	
1900.		
February 1 to April 19, to transfer to street improvement bonds.....	409 15	
		\$ 1,027 43

Cr.

1899.		
April 19 to January 27, 1900, by collections.....	\$ 540 10	
July 14, by transfer from general fund.....	78 18	
1900.		
February 1 to April 19, by collections.....	409 15	
		\$ 1,027 43

Mechanic street Improvement.

Dr.

1899.		
June 30 to December 30, to transfers to street imp. bonds.....	\$ 1,154 11	
1900.		
February 1 to April 19, to transfers to street imp. bonds.....	57 88	
		\$ 1,211 99

Cr.

1899.		
June 1 to December 22, by collections	\$ 1,154 11	
1900.		
February 1 to April 19, by transfer from general fund	57 88	
		\$ 1,211 99

Mills street Improvement, Madison to College Avenues.**Dr.**

1899.		
October 16 to January 31, 1900, to disbursements	\$	1,986 68
October 16 to January 31, 1900, to transfers to street imp. bonds ..		525 60
1900.		
February 1 to April 19, to transfers to street imp. bonds		80 38
	\$	2,542 61

Cr.

1899.		
October 21 to January 20, 1900, by collections	\$	525 60
January 20, 1900, by transfers from street imp. bonds		1,986 68
1900.		
February 1 to April 19, by collections		80 38
	\$	2,549 61

Oakes street Improvement, Jefferson to Sheldon.**Dr.**

1899.		
May 31 to January 31, 1900, to transfers to street imp. bonds	\$	413 98
1900.		
February 1 to April 19, to transfers to street imp. bonds		326 87
	\$	740 15

Cr.

1899.		
April 19 to January 27, by collections	\$	341 07
July 12, to transfers from general fund	\$	72 21
1900.		
February 1 to April 19, by collections		326 87
	\$	740 15

Oakes street Improvement, Market to Ellsworth.**Dr.**

1899.		
May 22 to July 3, to disbursements	\$	120 19
June 30 to January 31, 1900, to transfers to street imp. bonds		981 55
1900.		
February 1 to April 19, to transfer to street imp. bonds		457 73
	\$	859 47

Cr.

1899.		
May 31 to January 27, 1900, by collections		281 55
May 31 to January 27, 1900 to transfers to street imp. bonds	\$	120 19
1900.		
February 1 to April 19, by collections		405 74
April 12, by transfer from general fund		51 90
	\$	859 47

REPORT OF COMPTROLLER,

Oakdale Avenue Improvement.

Dr.

1899.		
June 30, to transfer to street improvement bonds	\$	60 15
		<hr/>
	\$	60 15

Cr.

1899.		
June 1, by collections.....	\$	60 15
		<hr/>
	\$	60 15

Ottawa street Improvement, Bridge to Fairbanks.

Dr.

1899.		
May 22 to December 30, to disbursements.....	\$	16,871 91
December 30, to transfers to street improvement bonds.....		7,822 32
1900.		
February 1 to April 19, to transfers to street imp. bonds.....		108 65
		<hr/>
	\$	24,802 88

Cr.

1899.		
May 31 to December 30, by collections.....	\$	7 822 32
December 30 by transfers from street improvement bonds.....	\$	16,871 91
1900.		
February 1 to April 19, by collections.....		50 00
March 15, by transfer from general fund		58 65
		<hr/>
	\$	24,802 88

Ottawa street Improvement, Fairbanks to Coldbrook.

Dr.

1899.		
May 1 to November 20, to disbursements	\$	7,853 13
May 1 to November 20, to transfers to street imp bonds		1,984 96
1900.		
February 1 to April 19, to transfers to street imp. bonds.		757 65
		<hr/>
	\$	10,595 74

Cr.

1899.		
April 19 to November 4, by collections.....	\$	1,946 89
April 10 to November 4, by transfer from street imp. bonds		7,853 13
October 19, by transfer from general fund		38 07
1900.		
February 1 to April 19, by collections.....		757 65
		<hr/>
	\$	10,595 74

Ottawa street Improvement, Lyon to Bridge.

Dr.

1899.		
July 3 to July 31, 1900, to disbursements.	\$	7,888 70
July 3 to July 31, 1900, to transfer to street imp. bonds		<u>4,628 42</u>
	\$	12,462 12

Cr.

1899.		
July 31 to January 13, 1900, by collections	\$	4,628 42
July 31 to January 13, 1900, by transfers from street imp. bonds ..		<u>7,838 70</u>
	\$	12,462 12

Olive street Improvement.

Dr.

1899.		
June 30, to transfer to street improvement bonds.	\$	<u>18 95</u>
	\$	18 95

Cr.

1899.		
June 1, by collections	\$	<u>18 95</u>
	\$	18 95

Paris Avenue Paving, Cherry to Wealthy.

Dr.

1899.		
June 30 to January 31, 1900, to transfers to street imp. bonds	\$	2,324 61
1900.		
February 1 to April 19, to transfers to street imp. bonds.		<u>99 40</u>
	\$	2,324 01

Cr.

1899.		
June 1 to January 6, 1900, by collections	\$	2,324 61
1900.		
February 1 to April 19, by collections.		<u>99 40</u>
	\$	2 324 01

Palmer Avenue Improvement.

Dr.

1899.		
July 31 to January 31, 1900, to disbursements	\$	7,370 50
July 31 to January 31, 1900, to transfers to street imp. bonds		<u>3,735 76</u>
1900.		
February 1 to April 19, to transfers to street imp. bonds		<u>416 68</u>
	\$	11,522 94

REPORT OF COMPTROLLER,

Cr.

1899.		
August 31 to January 27, 1900, by collections	\$	3,735 76
1900.		
January 27, by transfers from street improvement bonds		7,370 50
February 1 to April 19, by collections		290 28
April 12, by transfer from general fund		136 40
		<hr/>
	\$	11,522 94

Plainfield Avenue Improvement, Coldbrook to R. R.

Dr.

1899.		
May 31 to December 30, to disbursements	\$	1,027 47
		<hr/>
	\$	1,027 47

Cr.

1899.		
May 1 to December 22, by collections	\$	1,027 47
		<hr/>
	\$	1,027 47

Plainfield Avenue Improvement, Quimby to Kuapp.

Dr.

1899.		
May 30 to December 30, to transfers to street imp. bonds	\$	4,179 17
1900.		
February 1 to April 19, to transfers to street imp. bonds		34 77
		<hr/>
	\$	4,213 94

Cr.

1899.		
April 19 to December 15, by collections	\$	2,178 96
December 15, by transfer from general fund		2,000 21
1900.		
February 1 to April 19, by collections		34 77
		<hr/>
	\$	4,213 94

Plainfield Avenue Improvement, R. R. to Quimby.

Dr.

1899.		
May 31 to December 30, to transfers to street imp. bonds	\$	4,553 82
1900.		
February 1 to April 19, to transfers to street imp. bonds		107 33
		<hr/>
	\$	4,660 65

Cr.

1899.		
May 1 to December 22, by collections	\$	4,370 40
December 15, by transfer from general fund		182 92
1900.		
February 1 to April 19, by collections		107 33
		<hr/>
	\$	4,660 65

Prince Street Improvement.

Dr.

1899.		
April 24 to December 30, to disbursements.....	\$ 4,680 19	
April 24 to December 30, to transfer to street imp. bonds.....	3,775 01	
1900.		
February 1 to April 19, to transfer to street imp. bonds.....	216 95	
		\$ 8,672 15

Cr.

1899.		
May 31 to December 30, by collections	\$ 3,775 01	
December 30, by transfer from street imp. bonds.....	4,680 19	
1900.		
February 1 to April 19, by collections....	195 30	
February 23, by transfer from general fund.....	91 65	
		\$ 8,672 15

South Prospect street Paving.

Dr.

1899.		
May 31 to January 31, 1900, to transfers to street imp. bonds.....	\$ 596 62	
1900.		
February 1 to April 19, to transfers to street imp. bonds.....	644 56	
		\$ 1,241 18

Cr.

1899.		
April 19 to January 20, 1900, by collections....	\$ 596 62	
1900.		
February 1 to April 19, by collections.....	644 56	
		\$ 1,241 18

North Prospect street Improvement.

Dr.

1899.		
May 31 to September 30, to transfers to street imp. bonds.	\$ 399 35	
		\$ 399 35

Cr.

1899.		
April 19 to September 5, by collections.....	\$ 203 56	
April 19 to September 5, to transfer from general fund	195 79	
		\$ 399 35

North Prospect street Improvement, Fountain to Fulton.

Dr.

1899.		
October 23 to January 31, 1900, to disbursements.....	\$ 6,787 50	
1900.		
January 31, to transfers to street improvement bonds.....	2,905 72	
February 1 to April 19, to transfers to street imp. bonds.....	216 55	
		\$ 9,909 77

Cr.

1899.		
October 31 to January 27, 1900, by collections.....	\$	2,905 72
1900.		
January 27, by transfers from street improvement bonds		6,774 00
February 1 to April 19, by collections.....		230 05
		<hr/>
	\$	9,909 77

Richard Terrace Improvement.

Dr.

1899.		
May 1 to August 31, to transfers to street improvement bonds..	\$	416 16
		<hr/>
	\$	416 16

Cr.

1899.		
May 1 to August 2, by collections.....	\$	416 16
		<hr/>
	\$	416 16

Robey street Improvement.

Dr.

1899.		
September 25 to January 31, 1900, to disbursements.	\$	1,878 26
1900.		
January 31, to transfers to street improvement bonds.....		38 17
February 1 to April 19, to transfer to street imp. bonds		687 92
		<hr/>
	\$	2,604 35

Cr.

1899.		
September 30 to January 31, 1900, by collections	\$	38 17
January 31, 1900, by transfers from street improvement bonds..		1,878 26
1900.		
February 1 to April 19, by collections.		687 92
		<hr/>
	\$	2,604 35

Rose street Improvement.

Dr.

1899.		
August 14 to January 31, 1900, to disbursements	\$	3,176 75
August 14 to January 31, 1900, to transfers to street imp. bonds..		1,223 98
1900.		
February 1 to April 19, to transfers to street imp. bonds		81 86
		<hr/>
	\$	4,484 59

Cr.

1899.		
August 31 to January 6, 1900, by collections	\$	1,225 98
1900.		
January 6, by transfer from street improvement bonds.....		3,176 75
February 1, to April 19, by collections.....		81 86
		<hr/>
	\$	4,484 59

Robinson Avenue Improvement.**Dr.**

1899.		
April 24 to January 31, 1900, to disbursements	\$	394 46
April 24 to January 31, 1900, to transfers to street imp. bonds		697 80
1900.		
February 1 to April 19, to transfers to street imp. bonds		766 85
	\$	1,858 01

Cr.

1899.		
April 19 to January 18, 1900, by collections	\$	697 80
May 31, by transfer from street improvement bonds		394 46
1900.		
February 1 to April 19, by collections		766 85
	\$	1,858 01

Spencer Avenue Improvement, Plainfield to North.**Dr.**

1899.		
April 24 to January 31, 1900, to disbursements	\$	4,064 31
April 24 to January 31, 1900, to transfers to street imp. bonds		2,066 89
	\$	7,081 10

Cr.

1899.		
May 31 to January 31, 1900, by collections	\$	2,066 89
May 31 to January 31, 1900, by transfers from street imp. bonds..		4,964 21
	\$	7,031 10

Steele Avenue Improvement.**Dr.**

1899.		
September 25 to December 18, to disbursements	\$	2,064 89
1900.		
January 31, to transfer to street improvement bonds.		863 20
February 1 to April 19, to transfer to street imp. bonds. . . .		37 54
	\$	2,965 02

Cr.

1899.		
September 30 to January 20, 1900, by collections	\$	863 20
September 30 to January 20, 1900, by transfers from street improvement bonds		2,064 88
1900.		
February 1 to April 19, by collections		37 54
	\$	2,965 02

REPORT OF COMPTROLLER,

Stewart Avenue Improvement.

Dr.

1899.	
August 14 to January 31, 1900, to disbursements	\$ 3,737 61
1900.	
January 31, to transfers to street improvement bonds	903 04
February 1 to April 19, to transfers to street imp. bonds	237 96

\$ 4,878 61

Cr.

1899.	
August 31 to January 13, 1900, by collections	\$ 903 04
1900.	
January 13, by transfers from street imp. bonds	3,737 61
February 1 to April 19, by collections	237 96

\$ 4,878 61

Travis Avenue Improvement.

Dr.

1899.	
October 23 to December 18, to disbursements	\$ 2,010 45

\$ 2,010 45

Cr.

1899.	
October 31 to December 30, by transfers from street imp. bonds ..	\$ 2,010 45

\$ 2,010 45

Tamarack street Improvement.

Dr.

1899.	
September 25 to December 30, to disbursements	\$ 2,883 20
December 30 to January 31, 1900, to transfers to st. imp. bonds...	735 39
1900.	
February 1 to April 19, to transfers to street imp. bonds	950 68

\$ 4,564 27

Cr.

1899.	
September 30 to January 6, 1900, by collections	\$ 725 39
1900.	
January 6, by transfers from street improvement bonds	2,888 20
February 1 to April 19, by collections	830 30
April 12, by transfer to general fund.	120 38

\$ 4,564 27

Tenth street Improvement.

Dr.

1899.	
October 9 to January 31, 1900, to disbursements	\$ 2,519 37
October 9 to January 31, 1900, to transfers to street imp. bonds..	1,116 94
1900.	
February 1 to April 19, to transfers to street imp. bonds	208 54

\$ 3,839 85

Cr.

1899.		
October 31 to January 31, 1900, by collections	\$	1,116 94
1900.		
January 31, by transfers from street improvement bonds		2,519 37
February 1 to April 19, by collections		203 54
		<hr/>
	\$	3,839 85

Third street Improvement.

Dr.

1899.		
June 30 to July 31, to transfer to street imp. bonds	\$	12 75
		<hr/>
	\$	12 75

Cr.

1899.		
June 5 to July 14, by collections	\$	9 60
July 14, by transfer from general fund		3 15
		<hr/>
	\$	12 75

Thompson Court Improvement.

Dr.

1899.		
May 8 to January 31, 1900, to disbursements	\$	367 30
1900.		
January 31, to transfers to street improvement bonds ..		178 75
February 1 to April 19, to transfers to street imp. bonds ..		85 35
		<hr/>
	\$	631 40

Cr.

1899.		
May 31 to January 13, 1900, by collections	\$	177 01
1900.		
January 13, by transfers from street improvement bonds ..		367 30
1899.		
July 14, by transfers from general fund		1 74
February 1 to April 19, collections		85 35
		<hr/>
	\$	631 40

Thomas street Improvement.

Dr.

1899.		
July 19 to December 30, to disbursements	\$	4,030 85
June 19 to December 30, to transfers to street imp. bonds ..		1,410 75
1900.		
February 1 to April 19, to transfers to street imp. bonds ..		28 03
		<hr/>
	\$	5,469 63

Cr.

1899.		
July 31 to December 8, by collections.	\$	1,410 75
July 31 to December 8, by transfers from street imp. bonds		4,080 85
1900.		
February 1 to April 19, by collections		28 03
	\$	5,469 63

Turner Street Improvement, Bridge to Seventh.

Dr.

1899.		
July 31 to January 8, 1900, to disbursements	\$	10,092 46
1900.		
February 1 to April 19, to transfers to street imp. bonds		4,926 25
	\$	15,018 71

Cr.

1899.		
August 31 to January 31, 1900, by transfers from street improve bonds	\$	10,092 46
1900.		
February 1 to April 19, by collections.....		4,926 25
	\$	15,018 71

*** Turner street Improvement, Seventh to North.**

Dr.

1899.		
September 25 to January 27, 1900, to disbursements.....	\$	4,347 20
1900.		
February 1 to April 19, to transfers to street imp. bonds		6,222 30
	\$	10,569 50

Cr.

1899.		
September 30 to January 31, 1900, by transfers from street im- provement bonds.....	\$	4,347 20
1900.		
February 1 to April 19, by collections.....		6,222 30
	\$	10,569 50

North Union street Improvement.

Dr.

1899.		
May 8 to January 31, 1900, to disbursements	\$	1,590 10
May 8 to January 31, 1900, to transfers to street imp. bonds		1,327 59
1900.		
February 1 to April 19, to transfers to street imp. bonds		43 40
	\$	2,961 09

Cr.

1899.		
April 19 to January 6, 1900, by collections	\$	1,302 31
April 19 to January 6, 1900, by transfers to street imp. bonds		1,590 10
October 19 by transfers from general fund.....		25 28
1900.		
February 1 to April 19, by collections		43 40
	\$	2,961 09

Valley Avenue Improvement.

Dr.

1899		
June 30, to transfer to street improvement bonds	\$	17 01
	\$	17 01

Cr.

1899		
June 1, by collections	\$	17 01
	\$	17 01

Valley Avenue Improvement, Bridge to Fourth.

Dr.

1899.		
June 18, to disbursements	\$	203 20
June 30 to December 30, to transfers to street imp. bonds.....		889 06
1900.		
February 1 to April 19, to transfers to street imp. bonds....		53 74
	\$	1,146 00

Cr.

1899.		
June 6 to December 30, by collections		889 06
June 30, by transfers from street improvement bonds.....		203 0
1900.		
February 1 to April 19, by collections		41 15
February 17, by transfer from general fund.....		12 59
	\$	1,146 00

Watson street Improvement.

Dr.

1899.		
July 31 to January 31, 1900, to disbursements.....	\$	4,413 54
1900.		
January 31, to transfers to street improvement bonds		883 00
	\$	5,295 54

Cr.

1899.		
August 31 to January 27, 1900, by collections.. ..		883 00
1900		
January 27, by transfers from street improvement bonds.....		4,412 54
	\$	5,295 54

REPORT OF COMPTROLLER,

South Waterloo street Improvement.

Dr.

1899.		
May 31 to December 30, to disbursements.....	\$	274 17
May 31 to December 30, to transfers to street imp. bonds.....		5,066 48
1900.		
February 1 to April 19, to transfers to street imp bonds.....		352 75
	\$	5,693 40

Cr.

1899.		
April 19 to December 20, by collections.....	\$	4,960 19
April 19 to December 28, by transfer from street imp. bonds.....		274 17
November 9, by transfer from general fund.....		106 20
1900.		
February 1 to April 19, by collections.....		352 75
	\$	5,693 40

Winsor Place Improvement.

Dr.

1899.		
June 30 to January 31, 1900, to transfers to street imp. bonds.....	\$	510 59
February 1 to April 19, to transfers to street imp. bonds.....		51 30
	\$	562 19

Cr.

1899.		
June 1 to January 6, 1900, by collections.....	\$	510 89
1900.		
February 1 to April 19, by collections.....		51 30
	\$	562 19

Worden street Improvement, Madison to Union.

Dr.

1899.		
April 24 to December 30, to disbursements.....	\$	706 91
December 30, to transfers to street improvement bonds.....		1,045 68
1900.		
February 1 to April 19, to transfer to street improvement bonds.....		147 77
	\$	1,900 36

Cr.

1899.		
May 1 to December 16, by collections.....	\$	871 28
May 1 to December 15, by transfer from street imp. bonds.....		706 91
May 1 to December 15, by transfer from general fund.....	\$	174 40
1900.		
February 1 to April 19, by collections.....		147 77
	\$	1,900 36

M. A. FROST, City Treasurer.

CITY OF GRAND RAPIDS, MICH.

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IMPROVEMENT ROLLS FOR COLLECTION	Amount due on Rolls Feb. 1, 1900		Collections Feb. 1 to April 19, 1900		Returns Feb. 1 to April 19, 1900		Bal. uncollected April 19, 1900	
	\$		\$		\$		\$	
Bobby Street improvement, Wealthy to N. end of street.....	2,161 88		685 42				1,476 41	
East Grove Street improvement, Diamond to Fuller	2,490 84		313 71		23 70		2,113 47	
Jefferson Avenue improvement, Wealthy to Fifth	10,790 20		528 15				10,271 05	
Home Avenue improvement, Division to Jefferson.....	1,533 56		31 00				1,502 56	
La Belle Avenue improvement, Division to Ionis	1,422 68		24 12				1,408 56	
Campau Street sewer	613 22		531 12		81 50			
Prince Street improvement, Madison to Union	963 56		137 00				826 56	
Baxter Street improvement, East to Fuller	2,063 05						2,063 05	
Crescent Avenue improvement, Bogtwick to Union	9,193 00						9,193 00	
South Prospect Street improvement, E. Fulton to Washington	912 39		591 63				317 77	
Helen Avenue improvement, Diamond to Caroline Place	602 50		203 70				398 80	
Tenth Street improvement, Alpine to Pine	3,683 87		199 35		38 70		3,645 82	
Grandville Avenue improvement, Hall to Clyde Park Ave	7,176 99		68 48		131 27		6,979 24	
Rose Street improvement, Division to Buchanan	2,677 67		23 45		59 74		2,594 48	
Caulfield Avenue improvement, Hall to Rumsey's Add	2,037 90		78 00		74 36		2,085 44	
Oakes Street improvement, Ellsworth to Market	664 90		261 00				393 90	
Jefferson Avenue improvement, Cherry to Wealthy Ave	1,462 33		127 95				1,334 37	
Pine Street sewer	164 00							
Elm Avenue improvement, Division to Buchanan	2,969 30		107 57		50 56		2,711 07	
Madison Avenue improvement, Cherry to Fifth Ave	9,307 13		2,745 80		282 12		6,279 21	

M. A. FROST, City Treasurer—Continued.

IMPROVEMENT ROLLS FOR COLLECTION.					Amount due on Rolls Feb. 1, 1900	Collections Feb. 1 to April 19, 1900	Returns Feb. 1 to April 19, 1900	Bal. uncollected April 19, 1900
					\$	\$	\$	\$
Eighth Avenue improvement.					128 59	120 23	12 26	
East Fulton Street improvement, Jefferson Ave. to Union.					5,585 62	103 80	39 78	5,482 84
Oakes Street improvement, Sheldon to Jefferson.					923 80	284 26		639 54
North Prospect Street improvement, E. Fulton to Fountain					3,994 28	215 20		3,779 08
Palmer Avenue improvement, Canal to Plainfield.					6,159 53	271 81		5,887 72
Crawford Street improvement, Madison Ave. to V. G. Cemetery					1,740 37	140 45	43 98	1,599 39
Madison Street improvement.					1,464 68	358 40		1,106 28
Turner Street improvement, Bridge to Seventh Sts.					11,680 00	4,923 97		6,756 03
Barth Street improvement, Wealthy to Logan.					922 05	195 77	38 07	784 28
North Arm of Third Avenue improvement.					384 00	134 00	250 00	
Ottawa Street improvement, Bridge to Fairbanks					9,484 62	50 00		9,434 62
Colt Avenue improvement, Bridge to Fairbanks					2,813 58	634 48	66 80	2,112 30
Steele Avenue improvement, Hall to Stevens					3,636 80	36 80		3,600 00
Campau Street improvement.					10,366 75	8,276 10		2,090 65
East Bridge Street improvement, Barclay to Lafayette					2,325 67	313 31		2,012 36
Stewart Avenue improvement, Division to Buchanan					3,101 43	191 72	89 67	2,910 04
Crescent Avenue and Beotwick Street improvement.					3,094 33	220 80	53	2,873 00
Dickinson Avenue improvement, Jefferson to Madison.					1,725 39	41 10	83 37	1,602 02
Robinson Avenue improvement, East limits to Richard Terrace.					3,953 54	631 68	88 31	3,281 61
Lake Avenue improvement, Fuller to Wealthy.					7,844 69	85 78		7,758 97

Cherry Street Improvement, Ottawa to Ellsworth Ave.	562 80	127 50	15 30	460 00
Kalamazoo Avenue Improvement, Fifth to Boston	8,512 86	170 44	.....	8,342 42
FitzHugh Street Improvement, Lake to Hermitage	1,009 80	106 53	43 04	1,021 32
Thompson Court Improvement, Sycamore to Fifth	501 74	70 81	18 99	501 94
Millis Street Improvement, Madison Ave. to College	3,284 40	78 80	157 60	3,048 00
South College Avenue Improvement.	802 50	803 50	.....	.....
Worden Street Improvement, Madison to S. Union. .	1,022 00	99 27	.....	1,023 33
Ottawa Street Improvement, Fairbanks to Coldbrook	13 115 20	000 04	.....	12,425 16
Livingston Street Improvement, Bridge to Newberry. .	3,307 98	20 75	.....	3,287 23
Kalamazoo Avenue Improvement, Boston to Burton	2,839 34	713 20	.....	2 176 14
Terrace Avenue Sewer.	93 50	46 75	46 75	.....
East Bridge Street Improvement, Canal to Ottawa. .	2,526 48	23 02	.....	2,502 86
Colt and Colfax Avenue sewer	349 85	131 50	219 35	.....
Baxter Street Improvement, Henry to East.	767 97	02 11	.....	705 86
Plainfield Avenue Improvement, Quimby to Knapp	7,499 76	33 47	.....	7,467 29
Valley Avenue Improvement, Bridge to Fourth Sts.	1,453 37	36 19	.....	1,446 18
South Waterloo Street Improvement, E. Fulton to Wealthy. .	12,068 23	307 48	.....	11,750 75
Hume Avenue Improvement, Division to Ionla	1,070 88	34 56	.....	1,036 32
North Ionla Street Improvement	1,165 73	421 16	43 05	701 32
Plainfield Avenue Improvement, R. R. to Quimby	6,743 80	91 12	.....	6,652 68
Turner Street Improvement, Seventh to North	23,400 00	6,322 30	.....	17,277 70
Jefferson Avenue Improvement, Hall to Burton.	9 135 20	165 65	.....	8,499 60
Godfrey Avenue Improvement, Market to G. R. & I. right of way	3,150 00	500 00	.....	2,570 00
Lyon Street Improvement, Houseman to Union	5 702 64	39 28	.....	5 663 96

M. A. FROST, City Treasurer—Continued.

IMPROVEMENT ROLLS FOR COLLECTION	Amount due on Rolls Feb. 1, 1900	Collections Feb. 1 to April 19, 1900	Returns Feb. 1 to April 19, 1900	Bal. uncollected April 19, 1900
Hatley Place Improvement	\$ 1,311 64	\$ 29 20	.....	\$ 1,282 44
Fair Street Improvement	2,398 24	73 13	.....	2 296 11
Rates Street Improvement	4,713 96	.....	.....	4,713 96
Dennis Street Improvement	1,356 72	.....	.....	1,356 72
South Diamond Street Improvement	835 48	.....	.....	835 48
Euclid Avenue Improvement	999 12	.....	.....	999 12
Fuller Street Improvement	2,361 36	.....	.....	2,361 36
South Division Street Improvement	5,061 48	.....	.....	5,061 48
Highland Avenue Improvement	1,137 20	.....	.....	1,137 20
Hermitage Street Improvement	3,310 52	384 06	.....	2,946 46
Grand Avenue Improvement	2,890 88	.....	.....	2,890 88
Ives Avenue Improvement	1,088 46	.....	.....	1,088 46
Jackson Street Improvement	1,040 00	.....	.....	1,040 00
Luton Court Improvement	564 45	.....	.....	564 45
Mechanic Street Improvement	1,186 68	.....	.....	1,186 68
Ottawa Street Improvement, Lyon to Bridge	3,297 20	.....	.....	3,297 20
Plainfield Avenue Improvement, Coldbrook to R. R.	1,653 90	.....	.....	1,653 90
Paris Avenue Improvement	3,374 91	.....	.....	3,374 91
Spencer Avenue Improvement	2,960 73	.....	.....	2,960 73
North Union Street Improvement	1,356 08	35 00	.....	1,356 08

Tamarack Street Improvement	2,772 80	806 10	.....	1,964 70
Thomas Street Improvement ..	2,669 00	.....	.....	2,669 00
Watson Street Improvement	5,374 00	.....	.....	5,374 00
Winsor Place Improvement	906 36	.....	.....	906 36
Marion Street Improvement	542 00	.....	542 00	.....
Travis Avenue Improvement, Canal to Watrous	7,600 00	.....	.....	7,600 00
Total	\$ 320,028 47	\$ 36,623 75	\$ 2,533 20	\$ 230,870 92

REVENUE

Fees collected on Improvement rolls \$ 1,056 19

M. A. FROST, City Treasurer.

Dr.

To returns, City and Highway Tax, 1898, due February 1, 1900...\$ 3,126 32
 \$ 3,126 32

Cr.

By collections to April 4, 1900 \$ 1,367 12
 By returned to City Comptroller 1,729 20
 \$ 3,126 32

REVENUE.

Fees collected, 1898 returns \$ 109 75

I. F. LAMOREAUX, City Clerk.

ROLLS RETURNED FOR COLLECTION.		Due on Rolls, Feb. 1, 1900	Collections to April 19, 1900	Sales to City	Sales to Others	Balance Uncollected, April 19, 1900
		\$	\$	\$	\$	
Baxter street improvement, East to Fuller, 3d inst		226 10	107 84	20 16		
Chestnut street sewer, Grandville to Oakland		56 70	56 70			
Crescent avenue improvement, Bostwick to N. Union, 2d inst.		92 41	92 41			
Diamond street, Wealthy avenue to Baxter, 3d inst		57 16		57 16		
Dolbee street opening, Bates to 140.55' S.		27 22	4 73	19 43	3 16	
Dennis street improvement, E Fulton to Hermitage, 2d inst.		50 16		50 16		
Euclid avenue improvement, Hall to Home, 2d inst.		31 24	6 45	3 35	21 44	
S. Fuller improvement, Lake avenue to Wealthy, 1st inst		21 99	21 99			
Grand avenue and Lyon street sewer		311 34	37 91	206 18	68 25	
Highland avenue improvement, South Division to Central, 1st inst		59 46		19 04	40 42	
Hailey place improvement, Division to Jefferson, 1st inst		71 22	13 99	37 23		
Hamilton and Myrtle streets sewer		933 45	727 06	205 80		
Ives avenue improvement, Park avenue to Butterworth.		107 01	107 01			
North Ionia street alley sewer, Fairbanks to Trowbridge		108 16	10 50	48 83	48 83	
Jefferson avenue improvement, Wealthy to Fifth, 1st inst.		124 07	80 24		43 83	
Livingston street improvement, Bridge to Newberry, 2d inst		132 11	80 31			57 80
Luton court improvement, Lake avenue to north terminus, 2d inst		19 41			19 41	
LaBelle avenue improvement, S. Ionia to S. Division, 1st inst.		9 50		9 50		
Mechanic street improvement, N. Union to N. East, 2d inst.		56 09		55 08		

Oakes street improvement, Waterloo to Ellsworth, 3d inst.	67 86	17 67	50 19	.....	.....
Ottawa street improvement, Bridge to Fairbanks, 1st inst.	57 75	.....	57 75	.....	.....
Palmer avenue improvement, Canal to Plainfield avenue, 1st inst.	161 90	.....	131 90	.....	.....
Paris avenue improvement, Cherry street to Wealthy avenue, 2d inst.	99 15	99 15	.....	.....	.....
Prince street improvement, Madison avenue to Union, 1st inst.	72 90	52 05	30 75	.....	.....
Robey street sewer, Wealthy avenue to north end of street	32 55	32 55	.....	.....	.....
Tamarack street improvement, Walker avenue to 12th street, 1st inst.	108 68	.....	108 68	.....	.....
Travis avenue sewer, Watrous avenue to N. Colt.	55 96	.....	55 96	.....	.....
Taylor, Sweet and other streets sewer.	372 10	44 37	.....	.....	327 78
Thomas street improvement, Madison avenue to S. Union, 1st inst.	27 78	27 78	.....	.....	.....
Turner and Myrtle streets sewer.	128 15	66 15	.....	128 00	.....
Valley avenue improvement, Bridge to Fourth, 2d inst.	11 69	.....	11 69	.....	.....
Watson street improvement, Lane to John Ball Park, 1st inst.	783 54	.....	.....	.....	783 54
Winsor place improvement, Fifth to Prince, 2d inst.	50 80	50 80	.....	.....	.....
Cherry street improvement, Ellsworth to Ottawa, 2d inst.	19 74	.....	.....	.....	19 74
Eighth avenue improvement, Jefferson to Madison, 5th inst.	13 79	.....	.....	.....	13 79
Thompson court improvement, Sycamore to 5th, 2d inst.	24 76	.....	.....	.....	24 76
Madison avenue improvement, Cherry to 5th, 3d inst.	347 01	116 49	.....	.....	230 52
Grandville avenue improvement, Hall to Clyde park, 1st inst.	137 81	57 16	.....	.....	50 66
Caulfield avenue improvement, Hall street to Rumsey's add, 2d inst.	95 93	67 66	.....	.....	28 84
Rose street improvement, Division to Buchanan, 1st inst.	63 74	46 23	.....	.....	16 51
E. Fulton street improvement, Jefferson av nue to S. Union, 1st inst.	41 78	.....	.....	.....	44 78
Stewart avenue improvement, S. Division to Buchanan, 1st inst.	94 15	40 35	.....	.....	88 89
E. Grove street improvement, Diamond to Fuller street, 2d inst.	30 58	1 94	.....	.....	23 64

I. F. LAMOREAUX, City Clerk.—Continued.

ROLLS RETURNED FOR COLLECTION.	Due on Rols. Feb. 1, 1900	Collections to April 19, 1900	Sales to City	Sales to Others	Balance Uncollected April 19, 1900
Coit avenue improvement, Bridge to Fairbanks, 2d inst.	86 17	.....	.....	.....	86 17
Elm avenue improvement, Division to Buchanan, 1st inst.	53 08	26 54	.....	.....	26 54
Crawford street improvement, 1st inst.	46 18	15 00	.....	.....	31 18
Crescent avenue and Bostwick street improvement	56	.....	.....	.....	56
N. Ionia street improvement, Pearl to Crescent, 3d inst.	52 95	.....	.....	.....	52 95
Robinson avenue improvement, Lake to city limits, 2d inst.	113 63	.....	.....	.....	113 63
Mills street improvement, Madison to S. College, 1st inst.	105 84	.....	.....	.....	105 84
Barth street improvement, 2d inst.	41 38	23 18	.....	.....	19 20
Tenth street improvement, Alpine avenue to Pine street, 1st inst.	40 54	.....	.....	.....	40 54
Helen avenue improvement, 3d inst.	35 43	23 62	.....	.....	11 81
Coit avenue and Colfax street sewer	239 27	42 21	.....	.....	187 06
FitzHugh street improvement, Lake to Hermitage, 1st inst.	45 19	.....	.....	.....	45 19
Campau street sewer, Fulton to Louis street	85 57	.....	.....	.....	85 57
Marion street improvement, Butterworth to R. R.	549 10	.....	.....	.....	549 10
N. Arm of Third avenue improvement	292 50	.....	.....	.....	292 50
Terrace avenue sewer, Logan to 300 feet north	49 09	.....	.....	.....	49 09
Dickenson avenue improvement, 1st inst.	87 55	27 37	.....	.....	60 18
Totals.	\$ 7,308 14	\$ 2,314 42	\$ 1,188 94	\$ 409 44	\$ 3,458 34
REVENUE—Fees collected on returns.	.....	.....	.....	.....	\$ 101.00

I. F. LAMOREAUX, City Clerk.

CITY TAX SALES SUBJECT TO REDEMPTION.	Due Feb. 1, 1900	Redeemed	Redemption Expired	Bal. Uncollected April 19, 1900
	\$			
Fairbanks and Clinton street sewer.....	38 40		32 40	
Oakdale avenue improvement, 5th inst.....	143 50		143 50	
Fountain street improvement, Lafayette to Union, 5th inst ..	15 59			15 59
Sweet street opening.....	6 15		6 15	
Gilbert street improvement, Madison to cemetery, 5th inst.....	1 10		1 10	
Sidewalk Roll of Aug., 1898	15 75		15 75	
E. Leonard street improvement, Plainfield to East.	289 05		289 05	
Baxter street improvement, East to Fuller, 2d inst.....	40 86		40 86	
Courtney street sewer, 700 feet west of Alpine to Alpine.....	55 20	47 48	7 72	
Broadway street improvement, north to R. R., 5th inst.....	29 47		29 47	
Butterworth avenue improvement, Lane to limits, 5th inst ..	76 36	34 97	41 39	
Butterworth avenue sewer, Lane to Hogadone.....	92 80		92 80	
Prince street sewer, Madison to Union	1 16	1 16		
Courtney street sewer, 700 to 1,000 feet west of Alpine avenue.....	29 72		29 72	
General Taxes 1896.....	16 77			16 77
Ives avenue improvement, Park to Butterworth, 1st inst	12 91			12 91
S. Diamond street improvement, Wealthy to Baxter, 2d inst.....	27 56			27 56
Diamond and other streets sewer.....	44 70			44 70
Elizabeth street improvement, North to Broadway, 5th inst.....	11 69	11 69		
Sweet street sewer, Plainfield to North.....	35 04			35 04

I. F. LAMOREAUX, City Clerk.—Continued.

CITY TAX SALES SUBJECT TO REDEMPTION.	Due Feb. 1, 1900	Redeemed	Redemption Expired	Bal. Uncollected April 19, 1900
Sidewalk Roll of November, 1898	190 00	28 86	.....	161 23
Cherry street improvement, Ellsworth to Ottawa, 1st inst.	16 97	.....	.....	16 97
Madison avenue paving, Cherry to 5th, 2d inst.	48 80	.....	.....	48 80
Colt avenue improvement, Sweet to Dean, 5th inst.	9 47	.....	.....	9 47
Thompson court improvement, Sycamore to 5th, 1st inst.	1 74	.....	.....	1 74
Cherry street and Lake avenue improvement, 5th inst.	22 30	.....	.....	22 30
Madison street improvement, north to Union, 2d inst.	26 20	26 20	.....	.....
Kalamazoo avenue improvement, Boston to Burton, 2d inst.	562 06	218 41	.....	343 67
Crosby street improvement, Alpine to terminus, 5th inst.	71 61	.....	.....	71 61
N. Prospect street improvement, Cedar to Bradford, 5th inst.	168 66	.....	.....	168 66
Worden street improvement, Madison to Union, 1st inst.	174 40	.....	.....	174 40
Highland avenue opening	188 55	172 05	.....	16 50
Hermitage street improvement, Diamond to Fuller, 1st inst.	54 74	28 07	.....	31 67
N. Union street improvement, Bridge to R. R., 1st inst.	4 22	.....	.....	4 22
Kalamazoo avenue improvement, 5th to Boston, 2d inst.	1,208 07	15 05	.....	1,188 02
Lake avenue paving, Fuller to Wealthy, 2d inst.	427 43	.....	.....	427 43
Bates street improvement, East to Fuller, 2d inst.	50 67	.....	.....	50 67
Plainfield avenue improvement, Coldbrook to R. R., 2d inst.	137 89	.....	.....	137 89
Lyon street improvement, Union to Houseman, 1st inst.	173 29	31 84	.....	141 45
Grand avenue improvement, Fountain to Lyon, 1st inst.	180 28	.....	.....	180 28

Jefferson avenue improvement, Hall to Burton, 1st inst.	37 08	.....	.....	.....	37 08
Plainfield avenue improvement, Quimby to Knapp, 2d inst.	2,000 21	.....	130 42	.....	1,869 79
Plainfield avenue improvement, Quimby to R. R., 2d inst.	182 32	.....	.....	.....	182 92
E. Bridge street opening.	5 94	.....	.....	.....	5 94
Diamond and Fisher streets sewer	1 16	.....	.....	.....	1 16
Buckeye street opening. Diamond to Calkins avenue.	36 60	.....	.....	.....	36 60
S. Division street improvement, Burton to R. R., 2d inst.	84 71	.....	16 21	.....	68 50
Sales since February 1, 1900.					
Barter street improvement, East to Fuller, 3d inst.	21 06	.....	.....	.....	21 06
Diamond street improvement, Wealthy to Barter, 3d inst.	59 86	.....	.....	.....	59 86
Delbee street opening, Bates to 140.55 feet south.	25 73	.....	.....	.....	25 73
Dennis street improvement, E. Fulton to Hermitage, 2d inst.	51 06	.....	.....	.....	51 06
Euclid avenue improvement, Hall to Home, 2d inst.	4 25	.....	.....	.....	4 25
Grand avenue and Lyon streets sewer	220 36	.....	15 45	.....	204 93
Highland avenue improvement, S. Division to Central ave., 1st inst.	19 94	.....	.....	.....	19 94
Halley place improvement, Division to Jefferson, 1st inst.	58 23	.....	.....	.....	58 23
Hamilton and Myrtle streets sewer	200 40	.....	.....	.....	200 40
N. Ionia street alley sewer.	49 73	.....	.....	.....	49 73
Labelle avenue improvement, S. Ionia to S. Division, 1st inst.	10 40	.....	.....	.....	10 40
Mechanic street improvement, N. Union to N. East, 2nd inst.	57 88	.....	57 88	.....	.....
Oakes street improvement, Waterloo to Ellsworth, 2d inst.	51 99	.....	.....	.....	51 99
Ottawa street improvement, Bridge to Fairbanks, 1st inst.	58 65	.....	.....	.....	58 65
Palmer avenue improvement, Canal to Plainfield, 1st inst.	136 40	.....	.....	.....	136 40
Prince street improvement, Madison avenue to Union street, 1st inst.	21 65	.....	.....	.....	21 65
Tamarack street improvement, Walker avenue to 12th street, 1st inst.	120 36	.....	.....	.....	120 36
Travis avenue sewer, Watrous avenue to N. Coit.	57 76	.....	.....	.....	57 76
Valley avenue improvement, W. Bridge to Fourth, 2d inst.	12 59	.....	.....	.....	12 59
Totals.	\$ 8,271 30	\$ 839 74	\$ 729 91	\$ 6,701 55	\$ 84 84
Revenue on above.					\$ 54 84

I. F. LAMOREAUX, City Clerk.

SALES TO OUTSIDE PARTIES REDEMABLE IN CITY CLERK'S OFFICE.	Due Feb. 1, 1900	Redeemed	Redemption Expired	Balance Redeemable
Sweet Street opening....	\$ 1 42		\$ 1 42	.....
Gilbert Street Improvement, Madison to Cemetery, 5th inst.	19 41		12 41	.....
East Leonard Street Improvement, Plainfield to East, 5th inst.	44 84		44 84	.....
Euclid Avenue Improvement, Hall to Home, 1st inst.	15 08		15 08	.....
Diamond Street Improvement, Lake to Fountain, 5th inst.	4 35		4 35	.....
Courtney Street sewer, 700 feet west of Alpine.	3 00		3 00	.....
Ethel Avenue Improvement, Logan to Sherman, 5th inst.	12 55		12 55	.....
Grand Avenue and other streets sewer	4 06			\$ 4 06
Houseman Street Improvement, B. to F., 5th inst.	40 53	\$ 20 47		20 06
Dayton Street Sewer. Ditch to Straight	10 58	10 58		.....
South Diamond Street Improvement, Wealthy to Baxter, 2d inst.	7 19			7 19
Diamond and other streets sewer	3 00	3 00		.....
Gelock and Dunham Streets sewer	167 10	28 20		138 90
Sewer in Block 6, Colt & Co.'s add.	31 35			31 35
Eighth Avenue Improvement, 4th inst.	18 01			18 01
Livingston Street Improvement, 1st inst.	22 69	22 69		.....
Sidewalk Roll, Nov. 1898	89 64	58 14		31 50
Madison Avenue paving, Cherry to Fifth, 2d inst.	85 80			85 80
Colt Avenue Improvement, Bridge to Fairbanks, 1st inst.	17 34	3 21		14 13
Shelden Street sewer, Island to 300 feet south of Cherry	80 67			80 67

Cherry Street and Lake Avenue paving, 5th inst.	1882 46		1882 46
Euclid Alley Avenue opening.....	4 06		4 06
Sidewalk Roll, February, 1899	4 59		4 59
Highland Avenue opening.....	481 58	10 35	421 23
North Union Street improvement, Bridge to R. R., 1st inst	12 06		12 06
Kalamazoo Avenue improvement, Fifth to Boston, 2d inst.	23 85		23 85
Bates Street improvement, East to Fuller, 2d inst.	24 14		24 14
Lyon Street improvement, Union to Houseman, 1st inst.	19 74		19 74
Grand Avenue improvement, Fountain to Lyon, 1st inst.	6 94		5 94
Sibley Street opening.....	12 53		12 53
Ethel Avenue sewer.....	56 40	88 20	38 20
Halfey Place sewer	10 35		10 35
Diamond and Fisher Streets sewer	217 20		
South Division Street improvement, Burton to R. R., 2d inst	26 90	13 45	37 20
Sold since February 1, 1900.			
Baxter Street improvement, East to Fuller, 3d inst.	39 00	39 00	13 45
Dolbee Street opening	4 96		
Euclid Avenue improvement, Hall to Home, 2d inst	23 94		4 96
Grand Avenue and Lyon Street sewer	71 85		23 94
Highland Avenue improvement, S. Division to Central Ave., 1st inst.	41 39		71 85
North Ionia Street Alley sewer.....	49 73		41 32
Jefferson Avenue improvement, Wealthy to Fifth Ave., 1st inst.	44 73		49 73
Luton Court improvement, Lake Ave. to N. Terrace, 2d inst.	20 31		44 73
Turner and Myrtle Streets sewer	128 70	128 70	20 31
Sidewalk Roll, August, 1899	128 35		128 35
Total.	\$ 3,226 15	\$ 365 94	\$ 94 19
Fees on above.			\$ 1,765 97
			\$ 29 00

I. F. LAMOREAUX, City Clerk.

Sidewalk and Nuisance Roll, August, 1899.

Due on returns, February 1, 1900.....	\$ 336 34		
		\$	336 34
Collections	\$ 27 50		
Sales to private parties	124 76		
Sales to city.....	102 13		
Sales void	81 96		
		\$	336 34
Revenue on above		\$	5 15
Returns sidewalk and nuisance roll, November, 1899.....	\$ 515 52		
		\$	515 52
Collections	\$ 14 87		
Balance uncollected, April 19, 1900.....	500 65		
		\$	515 52
Revenue on above.....		\$	25

Sidewalk Bills.

Returned for collection, due Feb. 1, 1900.....	\$ 181 58		
		\$	181 58
Collections to Feb. 5, 1900.....	\$ 101 56		
Returned to Marshall	80 06		
		\$	181 58

EXPENSES PAID FROM GENERAL FUND FOR STREET IMPROVEMENTS.

NAME OF IMPROVEMENT	DR.		CR.		
	Bal. due Gen'l Fund April 18, 1899	P'd from Gen'l Fund April 18, 1899 to April 19, 1900	Quit Claims and Redemptions	Transfers to Gen'l and Contingent Funds	Balance due General Fund
Robey St. Imp., Wealthy Ave. to North.		\$ 47 05			\$ 47 05
Robey St. sewer, Wealthy Ave. to North.		39 30		\$ 23 21	00
Antisdel Court Imp.	\$ 4 54				4 54
Opening Alley to Huron St.	143 56				143 56
N. College, North Ave., Sinclair, etc., sewer system	93 95				93 95
Courtney St. opening.	1,682 96				1,682 96
Crofton Ave. opening.	99 13				99 13
Chestnut St. sewer, Grandville to Oakland.		27 30		60 71	
Telford St. Imp.		1 00			
Diamond St. opening.	388 77				1 00
Eighth Ave. sewer.	10 12				268 77
S. Fuller St. sewer.	27 49				10 12
E. Fulton St. Imp., Division to Jefferson Ave.	603 25				27 46
Hastings St. sewer, N. Ionia to Clinton St.	61 09				548 25
N. Ionia St. Imp., Pearl to Monroe.	14 00				66 69
S. Ionia St. Imp., Oakes to Wealthy Ave.	346 22				14 00
Jefferson Ave. sewer.	10 26				346 22
					10 26
					\$ 33 41

EXPENSES PAID FROM GENERAL FUND, ETC.—Continued.

NAME OF IMPROVEMENT	Dr.		Cr.			
	Bal. due Gen'l Fund April 18, 1899	P'd from Gen'l Fund April 18, 1899 to April 19, 1930	Quit Claims and Redemptions	Transfers to Gen'l and Contingent Funds	Balance due General Fund	Bal. paid Gen'l Fund more than expenses
Major's Court sewer	\$ 7 13	.....	.....	.....	\$ 7 13	.....
Oakdale ave. sewer	140 87	.....	.....	.....	140 87	.....
Oakland ave. imp.	241 28	.....	.....	.....	241 28	.....
Packard, Baldwin and East st. sewer	27 66	.....	.....	.....	27 66	.....
Prescott st. sewer extension	1,662 20	.....	\$ 15 71	.....	1,646 49	.....
Stinchair st. imp.	209 01	.....	.....	.....	209 01	.....
Straight st. sewer	16 63	.....	.....	.....	16 63	.....
Stocking st. sewer	25 46	.....	.....	.....	25 46	.....
Stocking st. sewer, 4th to 5th .....	.....	\$ 2 00	.....	.....	2 00	.....
Wealthy ave. sewer, Ellsworth to Buchanan	105 94	.....	.....	.....	105 94	.....
Brown ave. opening .....	.....	.....	.....	.....	.....	\$ 23 62
McDowell st. opening	438 02	.....	.....	.....	438 02	.....
Terrace ave. sewer, Fifth to Highland	56 08	.....	.....	.....	56 08	.....
Third st. sewer, Fremont to Pine	90 34	.....	.....	.....	90 34	.....
Annes st. imp.	71 06	\$ 0 65	.....	.....	71 71	.....
Bostwick st. imp., Lyon st. to Park	114 56	.....	.....	.....	114 56	.....
Butterworth ave. imp.	699 26	.....	36 42	.....	612 84	.....

Bradburn st. imp., Fifth to Thomas.....	\$	42 08
Bartlett st. imp., Finney to Waterloo.....	1 00	1 00
Briggs' place imp., Quimby to Ames.....	62 46	62 46
Broadway st. imp., North st. to R. R.....	\$ 162 00	430 45
Bartlett st. sewer, Finney to Waterloo.....	47 16	47 16
Bates st. imp., Union to East.....	19 66	226 71
N. N. Coit ave. grade, Sweet to Knapp.....	\$ 65	130 50
Charles st. imp., Sherman to Thomas.....	81 48	81 48
Chubb st. and Geleok alley sewer.....	61 40	61 40
Chestnut st. imp., Grandville ave. to Oakland.....	64 91	64 91
Cherry st. imp., S. East to Kellogg ave.....	1 85	426 86
Crosby st. imp	144 10	689 42
S. College ave. imp., Mills st. to Thomas.....	85 40	85 40
S. College ave. pave, Wealthy Ave to Mills.....	93 62	93 62
Diamond st. imp., Lake ave. to Fountain.....	190 98	164 51
Dwight ave imp	100 43	90 76
Dayton st. sewer, West to Straight.....	228 41	207 52
Elizabeth st. improvement, North to Broadway.....	151 71	112 88
Ethel ave., imp., Wealthy ave. to Logan st.....	70 40	70 40
Eureka ave. sewer.....	50 73	50 73
Ethel ave. imp., Logan to Sherman.....	46 77	46 77
Eureka ave. imp., Wealthy ave. to Buckeye.....	35 41	35 41
N East st. imp., Fountain to Ives st.....	1,716 11	1,670 89
Eighth st. imp., Alpine ave. to Jennette st.....	65	65

EXPENSES PAID FROM GENERAL FUND, ETC.—Continued.

NAME OF IMPROVEMENT	Dr.		Cr.		
	Bal. due Gen'l Fund April 18, 1899	P'd from Gen'l Fund April 18, 1899 to April 19, 1900	Quit Claims and Redemptions	Transfers to Gen'l and Contingent Funds	Balance due General Fund
Fountain st. imp., N. Lafayette to Union	\$ 154 90	.....	.....	.....	\$ 154 90
S. Front st. imp., Allen to Shawmut ave.....	47 08	.....	.....	.....	47 08
Fourth st. imp., Ditch to Limits.....	385 36	.....	\$ 102 12	.....	284 24
Fernando st. imp.....	111 44	.....	.....	.....	111 44
Fremont st. imp., Walker to 11th.....	59 13	.....	.....	.....	59 13
Frank st. grade, Canal to Taylor st.....	89 67	.....	.....	.....	89 67
Griggs ave. imp., Division to Buchanan.....	93 00	.....	.....	.....	93 00
Gilbert st. imp., Madison to Cemetery	91 65	.....	10 90	.....	80 75
Gunnison st. grade.....	394 20	.....	13 19	.....	381 01
Goodrich st. sewer, Finney to Waterloo.....	68 08	.....	.....	.....	68 08
Hamilton st. imp., 11th to West Leonard.....	267 16	.....	.....	.....	267 16
Hollister st. imp	45 22	.....	.....	.....	45 22
Housman st. imp.....	186 10	\$ 22 40	20 95	.....	186 15
Hall st. imp., Grandville ave. to Kalamazoo ave.....	1,310 38	.....	.....	.....	1,310 38
S. Ionia st. im., Stevens to Hall.....	307 60	19 78	66 96	.....	271 37
Inns ave. imp., N. East to Diamond sts.....	90 46	.....	.....	.....	90 46
Island st. imp., Ellsworth ave. to Almy st.....	296 19	.....	.....	.....	296 19

Jefferson ave. imp., 5th ave. to Hall.....	\$	373 16	.....	\$	373 16	.....
Lincoln st. imp., 7th to W. Leonard.....		269 60	.....		269 75	.....
W. Leonard st. imp., West to Cemetery.....		213 80	.....		213 80	.....
S. Lane ave. imp., Fulton to Sibley.....		51 72	.....		51 72	.....
S. Lane Ave. imp., Fulton to Butterworth.....		153 08	.....		123 63	.....
E. Leonard st. imp., Plainfield ave. to N. East		1,904 08	.....		1,778 56	.....
Langdon st. imp., Lyon to Fountain.....		49 48	.....		49 48	.....
Logan st. imp., East to Fuller		198 05	.....		178 94	.....
Lake st. imp., East to Fuller.....		232 64	.....		157 43	.....
Olive st. imp., Earl to Letellier.....		40 19	.....		40 19	.....
Olive, Earl and Straight st. sewer.....		71 65	.....		71 65	.....
Oakdale ave. imp., Madison ave. to Cemetery.....		655 70	.....		475 25	.....
Park ave. imp., Lane to Ball Park.....		104 50	.....		104 50	.....
Park ave. sewer, Lane to Ditch.		155 49	.....		155 49	.....
Prospect ave. imp., W. Bridge to S. end of ave.....		43 49	.....		43 49	.....
N. Prospect st. imp., Bradford to Cedar.....	\$	717 20	.....		846 43	.....
Richard Terrace imp.		49 75	.....		59 40	.....
Richard Terrace sewer.....		9 00	.....		9 00	.....
Straight st. imp., Wealthy ave. to R.....		25 22	.....		25 22	.....
Shawmut ave. imp., Indiana to Valley ave		143 47	.....		142 47	.....
Shawmut ave. imp., Front to Division.....		100 67	.....		100 67	.....
Shawmut ave. sewer, Gold to Broadway.....		24 40	.....		24 40	.....
Scribner st. paving		329 49	.....		297 50	.....
Third st. imp., Lincoln st. to Valley ave.		152 03	.....		140 29	.....

EXPENSES PAID FROM GENERAL FUND, ETC.—Continued.

NAME OF IMPROVEMENT	Dr.		Cr.			
	Bal. due Gen'l Fund April 18, 1899	P'd from Gen'l Fund April 18, 1899 to April 19, 1900	Quit. Claims and Redemptions	Transfers to Gen'l and Contingent Funds	Balance due General Fund	Bal. paid Gen'l Fund more than expenses
Valley ave. imp., W. Bridge to Fulton..	\$ 189 39	.....	.....	.....	\$ 189 39	.....
Wealthy ave. sewer, Waterloo to Finney ..	58 74	.....	.....	.....	58 74	.....
Wallen st. imp	103 70	.....	.....	.....	103 70	.....
Alexander avenue imp	2 00	.....	.....	.....	2 00	.....
Adams st imp ..	5 00	.....	.....	.....	5 00	.....
Allerton ave. imp	2 00	.....	.....	.....	2 00	.....
Alley bet Jefferson and Cass aves.	3 00	.....	.....	.....	3 00	.....
Alley bet. Jefferson and Gold sts.	7 28	.....	.....	.....	7 28	.....
Alley bet. First ave. and Pleasant st.	2 00	.....	.....	.....	2 00	.....
Ashland ave. imp	4 00	.....	.....	.....	4 00	.....
Alley bet. N. Lafayette and N. Prospect sts ..	1 00	.....	.....	.....	1 00	.....
Alley in Block 2 E. of Gunnison st.	1 00	.....	.....	.....	1 00	.....
Briggs court, S. of Lyon st.	3 00	.....	.....	.....	3 00	.....
Barago ave. imp	1 00	.....	.....	.....	1 00	.....
Barnett st. imp	1 00	.....	.....	.....	1 00	.....
Roston ave. imp	7 00	.....	.....	.....	7 00	.....
Baxter st. imp., Henry to East.	39 87	\$ 15 76	\$ 27 58	.....	28 05	.....

Burke ave. imp	\$ 4 00	.....	.....	\$ 4 00	.....
W. Broadway st. imp., Bridge to Fulton.....	8 00	.....	.....	.....	6 00
Butterworth ave. sewer.....	107 74	.....	.....	.....	107 74
Barclay and E. Fulton sta. sewer.....	11 56	.....	.....	.....	11 56
Columbia ave. imp.	4 00	.....	.....	.....	4 00
Canal st. imp., Knapp ave. to Sweet st.....	131 74	.....	.....	.....	131 74
S. College ave. imp., Mills to Fifth.....	1 00	.....	.....	.....	1 00
Carlton st. imp., DeBruyn ave. to Hall.....	3 00	.....	.....	.....	3 00
Capital ave. imp.....	2 00	.....	.....	.....	2 00
Cady place imp.....	2 00	.....	.....	.....	2 00
Coldbrook st. imp., East to Fuller.....	6 41	.....	.....	.....	6 41
Court st. Imp., Bridge to W. Fulton.....	7 00	.....	.....	.....	7 00
Cornelius ave. imp.....	3 00	.....	.....	.....	3 00
Carleton st. imp., 5th ave. to Fish st.....	2 00	.....	.....	.....	2 00
Chester ave. imp.....	2 00	.....	.....	.....	2 00
Campau st. opening	527 96	.....	.....	\$ 3 00	524 96
Chicago ave. imp.....	6 00	.....	.....	.....	6 00
Stewart Ave. imp., S. Division to Buchanan.....	.....	\$ 48 91	.....	.....	46 91
DeBruyn ave. imp.....	3 00	.....	.....	.....	3 00
Third ave. imp.....	.....	43 59	.....	.....	43 59
Dean st. imp.....	2 00	.....	.....	.....	2 00
Howard st. sewer.....	.....	7 61	.....	.....	7 61
N. Division st. imp., E. Bridge to E. Leonard.....	10 76	.....	.....	.....	10 76
Dyk st. imp	2 00	.....	.....	.....	2 00

Fifth st. imp., N. Front to Stocking.....	\$ 13 00	.....	.....	.....	\$ 13 00	.....
Euclid ave. imp.	1 00	.....	.....	.....	1 00	.....
Earl st. imp.....	4 00	.....	.....	.....	4 00	.....
Gold st. imp.....	7 00	.....	.....	.....	7 00	.....
E. Gilbert st. imp.....	7 65	.....	.....	.....	7 65	.....
Grove Park ave	3 00	.....	.....	.....	3 00	.....
Giddings ave. imp	2 00	.....	.....	.....	2 00	.....
Sewer in Alley bet Goodrich and Bartlett	35 27	.....	.....	.....	35 27	.....
Higbee ave. imp	1 00	.....	.....	.....	1 00	.....
Hermitage st. imp	8 44	.....	.....	.....	8 44	.....
Hermitage st. imp., Diamond to Fuller ..	40 75	\$ 135 43	\$ 84 91	.....	91 27	.....
Harvey st. imp.....	2 00	.....	.....	.....	2 00	.....
Hooker ave. imp ..	6 00	.....	.....	.....	6 00	.....
High st. imp.....	1 00	.....	.....	.....	1 00	.....
Harrison st. imp.	1 00	.....	.....	.....	1 00	.....
Hovey st. imp.....	5 00	.....	.....	.....	5 00	.....
Hovey st. sewer .....	.....	2 00	.....	.....	2 00	.....
Marion st. sewer, Chatham to W. Bridge.....	.....	44 72	.....	\$ 56 81	\$ 12 09	.....
Ives st. imp.....	1 00	.....	.....	.....	1 00	.....
Ives ave. imp.....	56 39	16 56	.....	.....	72 95	.....
S. Jefferson st. imp., Fulton to Butterworth.....	5 00	.....	.....	.....	5 00	.....
S. Jefferson st. imp., W. Bridge to W. Fulton.....	10 00	.....	.....	.....	10 00	.....
Johnston ave. imp	1 00	.....	.....	.....	1 00	.....
Kalamazoo ave. imp., 5th ave. to Fisk st.....	2 00	.....	.....	.....	2 00	.....

REPORT OF COMPTROLLER.

EXPENSES PAID FROM GENERAL FUND, ETC.—Continued.

NAME OF IMPROVEMENT	Dr.		Cr.		
	Bal. due Gen'l Fund April 18, 1899	P'd from Gen'l Fund April 18, 1899 to April 19, 1900	Quit Claims and Redemptions	Transfers to Gen'l and Contingent Funds	Balance due General Fund
Knapp ave. imp.....	\$ 12 00	.....	.....	.....	\$ 12 00
Lewis st. imp., Leonard to S. end of st.....	1 65	.....	.....	.....	1 65
Leona st. imp.....	2 00	.....	.....	.....	2 00
Div. st., 1st ave., Central ave., etc. enlargement of sewer.....	.....	\$ 2 00	.....	.....	2 00
Lake st. imp., Giddings to S. end of st.....	4 59	.....	.....	.....	4 59
Logan st. imp.....	2 00	.....	.....	.....	2 00
Morse st. imp.....	2 00	.....	.....	.....	2 00
Nelson st. imp.....	2 00	.....	.....	.....	2 00
Neland ave imp.....	2 00	.....	.....	.....	2 00
North ave., Sinclair and Hastings st sewer.....	16 00	.....	.....	.....	16 00
Valley ave. imp., Park to Butterworth.....	2 00	.....	.....	.....	2 00
North st. sewer.....	17 53	.....	.....	.....	17 53
Marion st. imp., Sibley to Butterworth.....	12 00	.....	.....	.....	12 00
Marion st. sewer, Butterworth to R. R.....	10 50	13 85	.....	\$ 41 54	.....
Orchard place imp.....	8 00	.....	.....	.....	3 00
Ohio ave. imp.....	6 00	.....	.....	.....	6 00
Orville st. imp.....	1 00	.....	.....	.....	1 00
				\$ 17 19	

Oakhill Ave. imp.	3 00	.....	.....	.....	2 00	.....
Packard St. opening, widening and extension.	84	.....	.....	.....	84	.....
Phillips St. imp.	6 00	.....	.....	.....	6 00	.....
Page St. imp.	3 00	.....	.....	.....	3 00	.....
Philadelphia Ave. imp.	4 00	.....	.....	.....	4 00	.....
Pelton Ave. imp.	4 00	.....	.....	.....	4 00	.....
Prince St. imp.	2 00	.....	.....	.....	2 00	.....
Pennsylvania Ave. imp.	4 00	.....	.....	.....	4 00	.....
Portland Ave. imp.	4 00	.....	.....	.....	4 00	.....
Platfield Ave. imp.	8 50	.....	.....	.....	8 50	.....
Randolph St. imp.	5 00	.....	.....	.....	5 00	.....
Russel Ave. imp.	2 00	.....	.....	.....	2 00	.....
Pierce St. imp.	1 00	.....	.....	.....	1 00	.....
Ramona Ave. imp.	5 00	.....	.....	.....	5 00	.....
Sunny Side Ave.	4 00	.....	.....	.....	4 00	.....
Sylvan Ave. imp.	2 00	.....	.....	.....	2 00	.....
Sewer in Squer Alley and Erie St.	35 08	.....	.....	.....	35 08	.....
Spring Ave. imp.	4 00	.....	.....	.....	4 00	.....
Seventh St. imp., Turner to Fremont	9 00	.....	.....	.....	9 00	.....
Silver Creek Ave. imp.	7 00	.....	.....	.....	7 00	.....
Stewart St. imp.	2 00	.....	.....	.....	2 00	.....
Stevens St. imp.	8 00	.....	.....	.....	8 00	.....
Terrace St. imp.	2 00	.....	.....	.....	2 00	.....
Toren Court imp.	4 00	.....	.....	.....	4 00	.....

REPORT OF COMPTROLLER.

EXPENSES PAID FROM GENERAL FUND, ETC.—Continued.

NAME OF IMPROVEMENT	Dr.		Cr.	
	Bal. due Gen'l Fund April 18, 1899	P'd from Gen'l Fund April 18, 1899 to April 19, 1900	Quit Claims and Redemptions	Transfers to Gen'l and Contingent Funds
Trowbridge St. opening.....	\$ 138 45	.....	.....	Bal. paid Gen'l Fund more than expenses
Underwood Ave. Imp.....	1 00	.....	.....	Balance due General Fund
Vineland Ave. Imp.....	4 00	.....	.....	1 00
Valley Ave. opening and extension	41 74	.....	.....	4 00
Watrous Ave. Imp.....	3 00	.....	.....	41 74
Watkins St. Imp.....	2 00	.....	.....	3 00
Windsor Ave. Imp.....	11 00	.....	.....	2 00
Windsor Place Imp.....	30 28	.....	.....	11 00
Worden St. Imp.....	10 00	.....	.....	30 28
West St. opening.....	7 60	.....	.....	10 00
Yuba Ave. Imp.....	3 00	.....	.....	7 60
Dunham St. sewer.....	1 75	.....	.....	3 00
John St. Imp.....	3 00	.....	.....	1 75
More St. Imp.....	3 00	.....	.....	3 00
Grandville Ave. Imp.....	.....	\$ 140 91	.....	3 00
Eighth Ave. Imp., Jefferson to Madison Aves.	95 23	26 92	\$ 52 20	140 91
Island and Spring Sts Alley sewer.....	10 00	.....	.....	69 95
				10 00

Grand Ave. imp., Lyon to Fountain.....	\$ 51 13	\$ 207 68	\$ 1 95	.....	\$ 254 85	.....
Elm Ave. imp.....	.....	56 49	.....	.....	56 49	.....
Turner and Myrtle Sta. sewer.....	18 00	51 30	128 70	\$ 110 13	.....	\$ 160 44
Caldor St. imp.....	1 41	.....	.....	.....	1 41	.....
Inland St. imp.....	33 75	.....	.....	.....	33 75	.....
Paddock St. imp.....	4 00	.....	.....	.....	4 00	.....
N. Lafayette St. sewer, Fulton to Fairbanks.....	11 00	.....	.....	.....	11 00	.....
Twelfth Ave. sewer ..	.....	32 23	.....	56 08	.....	23 85
N. Pine St. sewer, First to Second.....	11 88	.....	.....	.....	11 88	.....
Hall St. sewer ..	14 25	.....	.....	.....	14 25	.....
N. Lane Ave. imp ..	2 75	.....	.....	.....	2 75	.....
Barker Place sewer.....	.....	32 00	.....	51 67	.....	19 67
River Ave. imp.....	.....	2 00	.....	.....	2 00	.....
Scribner St. Sewer.....	34 50	.....	.....	.....	34 50	.....
Turner St. imp., Bridge to Seventh.....	.....	32 17	.....	.....	32 17	.....
Turner St. imp., North to Seventh.....	.....	38 53	.....	.....	38 53	.....
Pearl St. imp., Ottawa to Ionia.....	35 84	.....	.....	.....	35 84	.....
E. Bridge St. Alley imp., Barclay to Lafayette ..	30 05	.....	.....	.....	30 05	.....
Clancy St. imp., E. Bridge to Cedar.....	9 00	.....	.....	.....	9 00	.....
N. Ionia St. imp ..	13 05	.....	.....	.....	13 05	.....
Louis St. imp., Campan to Fulton.....	96 95	.....	.....	.....	96 95	.....
N. Spring St. imp., Monroe to E. Fulton ..	334 14	.....	.....	.....	334 14	.....
Seventh, Eighth, Ninth, Etc., sewer system.....	6 00	.....	.....	.....	6 00	.....
Cornwall Ave. imp ..	5 00	.....	.....	.....	5 00	.....

EXPENSES PAID FROM GENERAL FUND, ETC.—Continued.

NAME OF IMPROVEMENT	Dr.		Cr.		
	Bal. due Gen'l Fund April 18, 1899	P'd from Gen'l Fund April 18, 1899 to April 19, 1900	Quit Claims and Redemptions	Transfers to Gen'l and Contingent Funds	Balance due General Fund
Libbey St. opening.....	.....	\$ 5 85	.....	.....	\$ 5 85
Halfey Place imp.....	\$ 16 00	46 34	.....	.....	64 34
Halfey Place sewer.....	.....	25 52	.....	\$ 46 16	\$ 17 64
Thompson Court imp., Fifth Ave. to Sycamore.....	46 15	65	.....	.....	46 80
S. Diamond St. imp., Logan to Baxter.....	3 00	.....	.....	.....	3 00
Carrier St. imp., N. Lafayette to North Union.....	3 00	.....	.....	.....	3 00
S. Lafayette St., imp., Wealthy to Fifth Aves.....	3 80	.....	.....	.....	3 80
Clinton St. imp., Bridge to Hastings.....	3 00	.....	.....	.....	3 00
N and S. College Ave. imp., Fountain to Cherry.....	24 00	.....	.....	.....	24 00
Fifth Ave. imp., Giddings Ave. to Limits.....	3 00	.....	.....	.....	3 00
S. Lane Ave. sewer.....	10 00	.....	.....	.....	10 00
Taylor, Sweet and Center Sts. sewer system.....	.....	75 43	.....	360 07	284 64
E. Leonard St. sewer.....	13 21	.....	.....	.....	13 21
Wealthy Ave. sewer.....	19 38	.....	.....	.....	19 38
N. Ionis St. Alley sewer.....	.....	83 04	.....	68 06	14 98
Sweet St. imp., N. Colt to Plainfield Aves.....	.....	6 61	.....	.....	6 61
Michigan St. sewer.....	24 32	.....	.....	.....	24 32

Henry St. imp.	\$	5 00	\$	5 00	.....
Crawford St. sewer		71 13		71 13	.....
Campau St. imp. ——— to Pike St.		45 84		45 84	.....
N. College Ave. and Christ St. sewer		2 12		2 12	.....
Dwight Ave. sewer		76 94		76 94	.....
N. Division St. sewer, Lyon to Monroe		200 04		200 04	.....
Fourth St. opening		142 27		142 27	.....
Grand Ave. opening		201 26		201 26	.....
Huron St. sewer		8 92		8 92	.....
S. Ionia St. sewer, Hall to Stevens		46 62		46 62	.....
W. Leonard St. imp.		22 70		22 70	.....
Legan St. opening		172 91		172 91	.....
Madison Ave. sewer, Hall to R. R.		104 56		104 56	.....
Paris Ave. imp.		32 12		32 12	.....
Ransom St. sewer		101 14		101 14	.....
Buckeye St. extension		50 10	\$ 2 60	47 50	.....
Third St. opening		177 55		177 55	.....
Third St. sewer, Stocking to Fremont		52 18		52 18	.....
Umatilla St. imp.		89 04		89 04	.....
Travis Ave. sewer, Coit Ave. to Watrous	\$ 90 46		70 56	19 90	.....
Valley Ave. imp., Park to W. Fulton	6 00			6 00	.....
Waterloo St. sewer		307 84		307 84	.....
Fourth St. imp., Stocking to Seward	4 00			4 00	.....
Wealthy Ave. sewer, Ionia to Division		146 27		146 27	.....

EXPENSES PAID FROM GENERAL FUND, ETC.—Continued.

NAME OF IMPROVEMENT	Dr.		Cr.			
	Bal. due Gen'l Fund April 18, 1899	P'd from Gen'l Fund April 18, 1899 to April 19, 1900	Quit Claims and Redemptions	Transfers to Gen'l and Contingent Funds	Balance due General Fund	Bal. paid Gen'l Fund more than expenses
S. Ionia St. sewer, Fourth to Fifth Aves	\$ 26 40	\$ 0 37	.....	\$ 50 62	.....	\$ 23 75
Maple St. sewer	2 51	.....	.....	.....	\$ 3 51	.....
E. Bridge St. Imp., Canal to East	1 00	.....	.....	.....	1 00	.....
Chatham St. sewer, Bridge to Marion	.....	2 77	.....	.....	2 77	.....
Davis St. Imp., Seventh to W. Leonard	2 00	.....	.....	.....	2 00	.....
Tamarack St. Imp., Walker to Twelfth	.....	100 90	.....	.....	100 90	.....
Livingston St. Imp., E. Bridge to N. end	101 65	4 25	\$ 22 69	.....	83 21	.....
Newberry St., Imp., Ionia to Clinton	3 60	.....	.....	.....	3 00	.....
Travis Ave. Imp., Canal to Watrous	.....	44 46	.....	.....	44 46	.....
E. Bridge St. Imp., Canal to Dock Line	11 69	.....	.....	.....	11 69	.....
E. Bridge St. opening	261 30	1940 61	.....	1235 56	276 35	.....
Sweet St. re-opening	105 46	.....	.....	16 25	90 20	.....
Colfax and Coit Ave. sewer	.....	32 47	.....	.....	32 47	.....
Bridge St. Alley, Pine to Lane Ave	.....	1 00	.....	.....	1 00	.....
Maple St. Imp	.....	5 25	.....	.....	5 25	.....
Palmer Ave. Imp., Plainfield to Canal	.....	238 40	.....	.....	238 40	.....
Fair St. Imp., Division to Jefferson	.....	62 65	.....	.....	62 65	.....

Millis St. imp., Madison to College Ave.	\$	15 75	\$	34 02	\$	34 02
Pleasant St. sewer.						15 75
First Ave. imp., Division to Lafayette Sts.			15 61			15 61
Rose St. imp., Division to Buchanan Sts.			49 07			49 07
Doerema Alley imp.	14 00		2 00			16 00
Eleventh St. imp.	1 05					1 05
Finney St. imp., Williams to Market.			3 00			3 00
S. Division St. imp., E. Fulton to Fifth Ave.	2 80					2 80
S. Division St. imp., Hall to R. R.	125 74					125 74
Waters St. imp., North St. to Limits.	1 00					1 00
S. Waterloo St. imp., Wealthy to Godfrey Ave.	7 40					7 40
Jackson St. imp., Valley Ave. to Ditch.	18 50		20 78			39 28
Carrier St. imp.			1 00			1 00
Mechanic St. sewer, Grand Ave. to 300 ft. W. of East.	9 19					9 19
N. N. Division St. imp., Monroe to E. Fulton.	40 22					40 22
Dickenson Ave. imp., Madison to Jefferson.			54 49			54 49
Lake Ave. sewer, from Wealthy Ave.	7 08					7 08
Salem Ave. sewer.			2 00			2 00
Myrtle and Hamilton St. sewer.			260 28	\$	107 30	152 98
Grattan St. imp.	2 00					2 00
Euclid Ave. opening.			32 65		28 53	4 12
Shoemaker Alley imp.	1 00					1 00
Terrace Ave. sewer, Logan—north.			30 28			30 28
Fremman's Court imp.	2 00					2 00

EXPENSES PAID FROM GENERAL FUND, ETC.—Continued.

NAME OF IMPROVEMENT	Dr.		Cr.		
	Bal. due Gen'l Fund April 18, 1899	P'd from Gen'l Fund April 18, 1899 to April 19, 1900	Quit Claims and Redemptions	Transfers to Gen'l and Contingent Funds	Balance due General Fund
Garden St. imp.....		\$ 18 29			\$ 18 29
Marion St. imp., Butterworth to R. R.....	\$ 15 25	29 60			44 85
Lincoln Park Ave. imp.....	2 00				2 00
Crawford St. imp., Madison Ave. to Cemetery.....		56 07			56 07
Fitz Ave. imp.....	1 00				1 00
New St. imp.....	3 00				3 00
High Ave. imp.....	4 00				4 00
Coldbrook St. imp., Canal to Taylor.....	304 53				304 53
Winter St. imp.....	5 00				5 00
Wealthy Ave. imp., Division to Grandville.....		2 00			2 00
Gold St. Alley.....	3 00				3 00
Hemlock St. sewer.....	11 00				11 00
West Side Ditch.....		21 00			21 00
Brainerd and other Sts. sewer system.....		1 00			1 00
N. Pine St. sewer, W. Bridge to First.....		27 34		\$ 67 03	
Broadway St. imp.....	8 00				8 00
Barter St. imp., East to Fuller.....	113 39	22 91	\$ 79 86		56 41
				\$ 39 69	

	\$	50 00	\$	47 54	\$	131 91	\$	84 37
Silver Creek sewer.....	50 00							
Alley bet. Bridge and Bowers.....	1 00							1 00
Straight St. Imp., Bridge to Butterworth.....	10 00							10 00
California St. Imp.....	5 00							5 00
W. Division St. Imp.....	5 00							5 00
Fountains St. Imp., N. Division to Lafayette.....	5 00							5 00
Barclay St. Imp., Fulton to Fountain.....	3 00							3 00
Diamond and Fisher Sts. sewer system.....			\$	47 54		\$	131 91	
W. Fulton St. sewer.....	1 00							1 00
Wealthy Ave. sewer.....	3 00							3 00
Goodrich St. Imp., S. Division to Jefferson.....	55 11							55 11
Oakland Ave. sewer system.....	6 00							6 00
Goodrich St. Imp., Finney to Waterloo.....	1 08							1 08
Alpine Ave. Imp.....	8 00							8 00
E. Bridge St. Alley, Lafayette to Prospect.....				1 00				1 00
Madison St. Alley.....	3 00							3 00
Fitzhugh St. Imp.....				44 86				44 86
Homlock St. sewer.....	3 00							3 00
S. College Ave. Imp., Fulton to Cherry.....				71 44				71 44
Lake Ave. Imp., S. Fuller St to Wealthy Ave.....	115 73			457 19				603 92
S. Diamond St. sewer.....				3 37				3 37
Valley Ave. Im., Bridge to Fourth Sts.....	45 51			65				46 16
Valley Ave. Imp., Fulton to Butterworth.....				8 00				8 00
Kalamazoo Ave. Imp., Boston to Burton.....	655 84			709 84		\$	661 30	734 38

EXPENSES PAID FROM GENERAL FUND, ETC.—Continued.

NAME OF IMPROVEMENT	DR.		CR.		
	Bal. due Gen'l Fund April 18, 1899	P'd from Gen'l Fund April 18, 1899 to April 19, 1900	Quit Claims and Redemptions	Transfers to Gen'l and Contingent Funds	Balance due General Fund
Madison Ave. imp., Cherry St. to Fifth Ave.	\$ 273 86	\$ 158 61	\$ 146 53	.....	\$ 285 97
S. Waterloo St. imp., Fulton to Wealthy	156 93	107 74	108 45	.....	156 22
W. Bridge St. imp., Garfield Ave. to Limits.....	11 00	.....	.....	.....	11 00
Tenth St. imp., Alpine Ave. to Pine St.....	.....	62 91	.....	.....	62 91
Kalamazoo Ave. imp. Fifth to Boston.....	1226 52	1344 81	296 75	.....	2274 58
Second St. imp., Front to Stocking.....	4 00	.....	.....	.....	4 00
Third St. imp., Front to Stocking.....	4 00	.....	.....	.....	4 00
Logan and Charles St. sewer.....	.....	20 36	.....	.....	20 36
Oakes St. imp., Ellsworth to Waterloo.....	42 40	55 09	.....	.....	97 49
Baxter St. sewer, Henry to East.....	4 85	.....	15 60	.....	.....
Lyon St. imp., Canal to Division.....	359 93	.....	.....	.....	.....
Jefferson Ave. imp., Cherry to Wealthy.....	41 91	.....	.....	.....	.....
Plainfield Ave. imp., R. R. to Quimby.....	269 18	1 85	41 83	.....	359 93
Plainfield Ave. imp., R. R. to Coldbrook.....	125 58	141 34	15 70	.....	41 91
Pearl St. imp., N. Ionia to N. Division.....	671 42	.....	.....	.....	229 70
Plainfield Ave. imp. Quimby to Knapp.....	1708 36	6 65	438 36	.....	231 22
Kalamazoo Ave. sewer, Fifth to Oakhill.....	359 47	.....	407 72	.....	671 42
					1276 62
					48 35

LaBelle Ave. Imp.				\$	50 49		\$	50 49		
E. Fulton St. sewer, Barclay to Lafayette					37 12		\$	62 33		\$ 35 21
Ionia St. Imp., Pearl to Crescent									1178 66	
Madison St. Imp., Union to North	\$	1178 66								25 83
S. Diamond St. Imp., Wealthy to Baxter		50 40		\$	1 85	\$	78 08			
Sheldon St. Imp., Fulton to First Ave.		40 72			90 23				181 06	
Walbridge St. Imp., Ionia to Coit Ave		3 00							3 00	
North Ave. Alley		37 00							37 00	
North Ave Imp., Bridge to Trowbridge		4 00							4 00	
Buchanan St. Imp., 9th Ave. to Prescott St.		3 00							3 00	
Williams St. Imp., Division to Ionia		1 00							1 00	
Will St. sewer		1 00							1 00	
Lilly St. Imp.		1 00							1 00	
E. Fulton St. Imp., Jefferson Ave. to Union St.					106 53				106 52	
E. Fulton St. Imp., East St. to Limits		9 90							9 90	
E. Fulton St. Imp., Division to Commerce		9 13			43 65			16 63		
S. Division St. Imp., Burton Ave. to R. R.		91 01			96 86		43 05		36 15	
Bates St. Imp., East to Fuller		466 27			53 92		94 00		143 81	
Bates St. sewer, East to Fuller		159 16					188 31		455 19	
Oakes St. Imp., Sheldon to Jefferson Ave.		32 30			66		72 31			29 15
S. Prospect St. Imp., Fulton to Washington		37 25							37 25	
N. Prospect St. Imp., Fulton to Fountain					53 93				53 93	
E. Bridge St. Imp., Canal to Ottawa		55 70							55 70	
E. Bridge St. Imp., Barclay to Lafayette		40 18							40 18	

EXPENSES PAID FROM GENERAL FUND, ETC.—Continued.

NAME OF IMPROVEMENT	Dr.		Cr.			
	Bal. due Gen'l Fund April 18, 1899	P'd from Gen'l Fund April 18, 1899 to April 19, 1900	Quit Claims and Redemptions	Transfers to Gen'l and Contingent Funds	Balance due General Fund	Bal. paid Gen'l Fund more than expenses
Helen Ave. imp.	\$ 48 79	\$ 0 05	.....	.....	\$ 49 44	.....
Sewer in Block 6, Colt & Co.'s Add.	26 40	84	.....	\$ 35 40	84	.....
Broadway St. imp., W. Bridge to Seventh Sts.	2 00	.....	.....	.....	2 00	.....
N. Front St. sewer, Eleventh to W. Leonard	.....	15 22	.....	.....	15 22	.....
Robinson Ave. and School St. sewer	173 27	3 17	\$ 1 06	92 92	82 46	.....
S. Union St. Alley	1 00	.....	.....	.....	1 00	.....
S. Union St. imp., Cherry to Wealthy	4 00	.....	.....	.....	4 00	.....
Home Ave. imp., Division to Ionla	38 78	.....	.....	.....	38 78	.....
Campau St. imp., Louis to Fulton	4 00	71 07	.....	136 00	.....	\$ 110 93
Home Ave. imp., Division to Jefferson	.....	61 47	.....	.....	61 47	.....
Ferry St. imp., Ottawa to Fulton	7 16	.....	.....	.....	7 16	.....
Lock St. and Canal St. Alley sewer	3 00	.....	.....	.....	3 00	.....
Cherry St. imp., S. Division to S. Ionla	.....	13 61	.....	.....	13 61	.....
Paris Ave. imp., Cherry to Wealthy	60 18	.....	.....	.....	60 18	.....
Watson St. opening and imp.	151 28	53 07	4 06	19 64	180 66	.....
S. Front St. imp., Shawmut to Wealthy	7 00	.....	.....	.....	7 00	.....
S. Front St. imp., Bridge to Allen	.....	2 00	.....	.....	2 00	.....

[illegible]

EXPENSES PAID FROM GENERAL FUND, ETC.—Continued.

NAME OF IMPROVEMENT	Dr.		Cr.		
	Bal. due Gen'l Fund April 18, 1899	P'd from Gen'l Fund April 18, 1899 to April 19, 1900	Quit Claims and Redemptions	Transfers to Gen'l and Contingent Funds	Balance due General Fund
Sibley St imp., Garfield to Valley Aves .....	.....	\$ 13 77	.....	.....	\$ 13 77
Madison St. imp., Plainfield to North Aves.	\$ 34 25	55 17	.....	.....	89 42
Butterworth Ave sewer, Lane to Hogadone Ave.	26 00	9 81	\$ 32 20	\$ 85 81	8 82 20
Ives Ave. sewer, Butterworth to Park	23 98	2 25	.....	86 91	60 68
Colt Ave. imp., Bridge to Fairbanks.	87 90	1 05	3 21	.....	86 74
N. Prospect St. Alley imp. ....	.....	3 00	.....	.....	3 00
Dennis St. imp., Fulton to Hermitage.	35 71	51 71	.....	.....	87 42
Godfrey Ave. sewer, Market to Hall. ....	.....	40 49	.....	.....	40 49
Gelock Ave. and Dunham Ave. sewer.	24 08	16 78	28 20	72 00	59 39
Worden St. imp., Madison Ave. to Union St.	47 15	177 85	.....	.....	225 00
Worden St. imp., Madison Ave. to S. Iowa.	5 25	.....	.....	.....	5 25
Jefferson Ave. imp., Hall to Burton.	118 50	160 23	49 64	.....	229 08
Jefferson Ave. imp., Wealthy to Fifth.	91 38	115 08	.....	.....	206 46
Grove St. imp., Taylor to Plainfield.	3 00	.....	.....	.....	3 00
Godfrey Ave. imp., R. R. to Market. ....	.....	23 38	.....	.....	23 38
Pago St. imp., North to Plainfield Ave.	4 00	.....	.....	.....	4 00
Campau St. sewer, E. Fulton to Louis .....	.....	35 07	.....	.....	35 07

CITY OF GRAND RAPIDS, MICH.

209

	\$	8 25	\$	206 48	\$	183 90	\$	193 01	\$	8 25
Ottawa St. sewer, Newberry to Walbridge.	38 15									\$ 182 28
Grand and Crescent Aves. sewer										
Grand Ave. and Lyon St. sewer				273 28		15 45		91 73		166 10
Dewey St. imp.	8 00									8 00
Clancy St. alley	1 00									1 00
North Ave. imp., Leonard to Cedar				4 00						4 00
Prince St. imp., Madison to Union.	23 25			37 91						61 16
Warden, Prince, Winsor Place sewer	33 15			9 00				71 92		29 08
Prince St. sewer, Madison Ave. to Union	74 33					44 06		80 21		49 94
Robinson Ave. imp.	64 90									64 90
College Ave. imp., 5th to Prince St.	5 00									5 00
Caulfield Ave. imp.	70 90			9 05						79 95
Barth St. imp., Wealthy to Logan.	42 65			2 00						44 65
Barth St. sewer, Wealthy to Logan	25 78							71 28		45 48
Lamont Court imp.	2 00									2 00
Steele Ave. imp., Hall to Stevens	2 00			60 02						62 02
Luton Court imp.	24 25			2 10						26 35
Ethel Ave. sewer.	15 65			16 30		56 40		84 05		103 50
Grove St. imp., Diamond to Fuller	49 15			24 65		24 00				49 80
N. Union St. imp., Bridge to R.	36 75			42 43		21 06				58 12
Sweet St. sewer, Plainfield Ave. to North Ave.	29 40			35 69				64 09		40
LaBelle Ave. sewer.	24 48							51 19		29 70
LaBelle Ave. imp.				3 00						3 00
Ottawa St. imp., Lyon to Bridge	47 00			55 61						102 61

EXPENSES PAID FROM GENERAL FUND, ETC.—Continued.

NAME OF IMPROVEMENT	Dr.		Or.			
	Bal. due Gen'l Fund April 18, 1899	P'd from Gen'l Fund April 18, 1899 to April 19, 1900	Quit. Claims and Redemptions	Transfers to Gen'l and Con-tingent Funds	Balance due General Fund	Bal. paid Gen'l Fund more than expenses
Ottawa St sewer, Bridge to Lyon ..	.....	\$ 59 50	.....	.....	\$ 59 50	.....
Highland Ave. imp., Central to Division.....	97 65	52 45	.....	.....	150 10	.....
Highland Ave. opening.....	.....	1,364 62	\$ 186 45	\$ 1,130 13	.....	\$ 51 96
Totals.....	\$ 43,352 90	\$ 13,517 44	\$ 6,319 42	\$ 5,768 85	\$ 45,681 89	\$ 1,797 82
Expenses paid from General Fund.....	.....	.....	.....	.....	\$ 55,870 34	.....
Amount paid to General Fund from Improvements.....	.....	.....	.....	.....	12,088 27	.....
Balance due General Fund.....	.....	.....	.....	.....	\$ 43,788 07	.....

DAILY STATEMENT

OF THE

CITY OF GRAND RAPIDS, MICH.

Taken from Daily Statement Ledger

April 19, 1900.

RESOURCES.

INVENTORY—Common Council	\$ 847,416 40	
Board of Poor Commissioners	220 32	
Health	12,000 00	
Education	1,953,000 00	
Police and Fire Commissioners	298,082 66	
Public Works	1,346,500 00	
Cemetery Commissioners	101,131 20	
		\$3,868,300 58

TAXES, ASSESSMENTS AND ITEMS FOR COLLECTION IN THE VARIOUS DEPARTMENTS.

TREASURER—City and Highway, School, State and County Personal	\$ 1,111 82	
Improvements	250,870 92	
Subject to Redemption 1899 City Highway	4,966 05	
		\$ 256,948 79
CLERK—Sidewalk and Nuisance Rolls	\$ 500 65	
Improvements	3,485 34	
Subject to Redemption	6,701 55	
		\$ 10,687 54
MARSHAL—Sidewalk and Nuisance Rolls	\$ 79 29	
		\$ 79 29
BOARD OF PUBLIC WORKS—Water Rates	\$ 59,117 45	
		\$ 59,117 45
COUNTY TREASURER—Returned 1899 School Tax	\$ 15,615 60	
		\$ 15,615 60

CASH STATEMENT.

BALANCES—City Depository	\$ 498,820 01	
		\$ 498,820 01
City Treasury	\$ 1,790 19	
		\$ 1,790 19
CASH ON HAND—Board of Public Works	\$ 208 91	
Police Court	50 00	
City Treasurer	1,170 19	
		\$ 1,427 10
Total		\$4,732,786 55

LIABILITIES.

Resources in Excess of Liabilities		\$1,771,300 58
Taxes, Assessments, Water Rates and Other Items for Collection.....		372 448 67
BONDS—Water Works.....	\$ 855,000 00	
City Hall	150,000 00	
Special	150,000 00	
Market	75,000 00	
School	272,000 00	
Street Improvements	460,000 00	
Electric Light.....	125,000 00	
		<hr/> \$2,087,000 00

**BALANCES OF VARIOUS FUNDS ON DEPOSIT WITH
CITY TREASURER.**

CEMETERIES—Valley City....	\$ 4,597 96	
Greenwood ..	2,281 81	
		<hr/> \$ 6,879 77
BOARD OF PUBLIC WORKS—Water Works.....	\$ 2,707 25	
Water Works Income.....	2,963 23	
		<hr/> \$ 5,660 48
PARKS—John Ball.....	\$ 515 79	
Lincoln	116 40	
A. Campau	210 78	
Park	197 88	
John Ball Extension .	3,179 12	
		<hr/> \$ 4,219 97
COURTS—Police	\$ 501 08	
Justice	2,836 37	
Superior ...	57 61	
		<hr/> \$ 3,395 06
ELECTRIC LIGHTING—Public.....	\$ 4,376 80	
Construction	530 26	
		<hr/> \$ 4,907 06
BRIDGE—Wealthy Ave.....	\$ 13,698 75	
Bridge	1,345 82	
		<hr/> \$ 15,044 57
SEWER DISTRICT—First ...	\$ 421 64	
Second.....	104 37	
Third.....	711 09	
		<hr/> \$ 1,237 10

HIGHWAYS—First.....	\$ 523 30	
Second.....	656 76	
Third ..	732 61	
Fourth.....	1,072 33	
Fifth ..	731 72	
Sixth.....	141 39	
Seventh.....	113 25	
Eighth.....	203 83	
Ninth.....	493 19	
Tenth.....	332 91	
Eleventh.....	44 30	
Twelfth	171 25	
		\$ 5,268 84
INTEREST—City Hall.....	\$ 3,750 00	
Special Bonds.....	3,010 50	
Market.....	1,489 50	
Electric Light.....	2,473 75	
		\$ 10,723 75
General.....	17,670 72	
Contingent.....	7,583 34	
Fire.....	11,012 80	
Police.....	5,029 02	
Poor.....	2,329 69	
Police and Fire Pension.....	127 15	
Market.....	8,580 94	
Greenhouse.....	163 63	
Library.....	71 80	
Road Roller.....	1,957 17	
Sinking Fund.....	136,175 73	
Special Improvement.....	133,817 40	
Board of Health.....	5,431 84	
Redemptions on Deposit.....	24 64	
Bridge Street Bridge Approach.....	4,731 48	
Time Orders.....	690 21	
Improvements—Secondary Ledger.....	6,213 44	
Seventh Issue Improvement Bonds ..	55,316 52	
Contract payable 7th Issue Improvement Bonds.....	46,458 85	
Board of Education.....	62 14	
		\$ 500,247 11
Outstanding Orders		1,790 19
Total.....		\$4,732,786 55

Inventory Realty, Owned by the City of Grand Rapids.

DESCRIPTION	APPROXIMATE VALUE
City Hall.....	\$ 300,000 00
Police Headquarters.....	66,000 00
Second Ave. School.....	35,000 00
South Division Street School.....	75,000 00
South Ionia Street School.....	10,000 00
Central Avenue School.....	23,000 00
Madison Avenue School.....	38,000 00
Wealthy Avenue School.....	52,000 00
Henry Street School.....	22,000 00
Fountain Street School.....	40,000 00
Central School.....	81,000 00
Central School Annex (High School).....	125,000 00
Central School, second Annex.....	1,400 00
North Division Street School (East Bridge).....	50,000 00
North Ionia Street School.....	35,000 00
East Bridge Street School.....	35,000 00
Coit Avenue School.....	10,000 00
East Leonard Street School.....	21,000 00
Plainfield Avenue School.....	29,000 00
Training School (Jefferson Street).....	35,000 00
Straight Street School.....	24,000 00
Union School.....	90,000 00
Turner Street School.....	28,000 00
West Leonard Street School.....	22,000 00
Pine Street School.....	23,600 00
Baxter Street School.....	18,000 00
Congress Street School.....	20,000 00
Diamond Street School.....	20,000 00
Hall Street School.....	28,000 00
Jefferson Avenue School.....	29,000 00
Lake Avenue School.....	5,000 00
Oakdale Avenue School.....	7,000 00
Palmer Avenue School.....	22,000 00
Widdicomb Street School.....	21,000 00
Buchanan Street School.....	17,000 00
Sibley Street School.....	21,000 00
Walker School.....	2,000 00
Seventh Street School.....	20,000 00
Engine House No. 1.....	9,235 62
Engine House No. 2.....	9,252 08
Engine House No. 3.....	13,000 00
Engine House No. 4.....	17,500 00
Engine House No. 5.....	10,385 15
Engine House No. 6.....	7,781 05

Engine House No. 7.....	8,775 00
Engine House No. 8.....	8,176 00
Engine House No. 9.....	8,750 00
Engine House No. 10.....	8,800 00
Lot Engine House No. 11 ..	1,500 00
Hospital.....	12,000 00
Oak Hill Cemetery.....	163,182 21
Valley City Cemetery.....	78,867 83
Greenwood Cemetery.....	13,634 00
Lincoln Park.....	30,000 00
John Hall Park.....	120,000 00
Highland Park.....	12,000 00
Fulton St. Park....	75,000 00
Crescent Park.....	15,000 00
State Street Park.....	10,000 00
Foster Park.....	2,000 00
Antoine Campau Park.....	40,000 00
Monument Park.....	15,000 00
Ellsworth Park.....	2,000 00
East Bridge Street Park.....	5,000 00
Lookout Park.....	5,000 00
Pearl Park.....	1,000 00
Hosken Park.....	1,000 00
Settling Basin.....	15,000 00
Reservoir.....	20,000 00
Standpipe lot.....	500 00
Gravel Pits.....	2,900 00
Pumping Station.....	30,000 00
Leonard Street Bridge.....	5,280 00
Fulton Street Bridge.....	28,600 00
Pearl Street Bridge.....	23,300 00
Bridge Street Bridge.....	24,780 00
Sixth Street Bridge.....	12,600 00
Pearl Street Canal Bridge.....	5,770 00
Bridge Street Canal Bridge.....	7,070 00
Clancy Street Bridge.....	1,320 00
Broadway Street Bridge.....	1,230 00
Market Site and Buildings.....	85,000 00
Garbage Burner.....	15,000 00
Electric Light Plant.....	185,000 00

 \$2,673,088 94

Personal Property Owned by City of Grand Rapids.

FIRE DEPARTMENT.

INVENTORY OF APPARATUS, STOCK AND SUPPLIES.

April 30, 1899.

House No. 1.....	\$ 7,656 98
House No. 2	6,485 95
House No. 3.....	13,834 00
House No. 4.....	12,500 00
House No. 5.....	7,385 82
House No. 6.....	8,854 51
House No. 7.....	7,500 00
House No. 8.....	9,460 73
House No. 9.....	2,352 03
House No. 10.....	6,400 00
One engine in reserve	1,000 00
One hook and ladder truck in reserve	300 00
Two hose wagons in reserve.....	200 00
Lot for engine house No. 11.....	1,500 00
Total.....	\$ 85,380 01
Inventory of fire alarm department.....	26,942 53
Grand Total.....	\$ 112,322 54

POLICE DEPARTMENT.

INVENTORY OF DEPARTMENT.

April 30, 1899..... \$ 21,528 63

CITY HALL.

INVENTORY OF CONTENTS

Office furniture, fixtures, etc..... \$ 25,000 00

WATER WORKS.

Pumping station, machinery, etc..... \$
 Repair shop.....
 Pipes, mains, etc.....
 Standpipe, cost to date.....
 Total..... \$1,241,000 00

BOARD OF EDUCATION.

INVENTORY OF CONTENTS OF BUILDINGS, SUPPLIES, MATERIAL, ETC.

School seats..... \$
 Personal property..... 54,000 00
 Library..... 66,000 00
 Total..... \$ 120,000 00

Inventory First Highway District.

GRAND RAPIDS, MICH., April 20, 1900.

Leo A. Caro, City Comptroller:

The following is an inventory of property belonging to the First Highway District:

1 horse.....	\$ 75 00
1 buggy.....	50 00
1 cutter.....	20 00
3 blankets	4 50
2 robes.....	2 00
1 harness	5 00
1 halter.....	50
1 comb and brush.....	1 00
5 highway carts, \$20.00.....	100 00
2 highway carts harnesses, \$15.00.....	30 00
4 small highway carts, \$12.50.....	50 00
1 small highway cart, steel.....	15 00
40 bags for highway carts.....	2 25
5 badges for men on asphalt streets.....	2 50
8 white suits for men on asphalt streets.....	10 00
8 helmets for men on asphalt streets	2 00
15 snow plows, \$10.00.....	150 00
1 steel plow.....	10 00
16 picks and handles.....	10 00
20 large hoes.....	10 00
6 small hoes, old.....	1 50
12 brooms for asphalt streets.....	3 30
12 street brooms.....	6 00
15 snow shovels	7 50
1 asphalt shovel	2 00
10 scoop shovels, 90c.....	9 00
1 branding iron.....	2 50
2 paving hammers.....	3 00
2 paving pounders.....	1 50
5 wheel barrows.....	5 00
3 iron bars.....	1 50
6 small shovels.....	3 00
4 scythes and snaths.....	4 00
2 sickles	50
4 rakes	2 00
5 asphalt scrapers and handles.....	3 75
1 road slusher.....	6 00

1 cross cut saw.....	1 75
2 hand saws	1 50
4 gravel screens.....	16 00
1 adz	1 00
Lot of curb stone.....	100 00
Lot of iron aprons.....	50 00
1 street sweeper, new.....	325 00
1 street sweeper, old.....	50 00
1 sprinkling wagon	50 00
Tool house.....	125 00
1 stove.....	3 00
	<hr/>
	\$ 1,334 75

H. J. BROUWER,
Highway Commissioner First District.

Inventory First Sewer District.

GRAND RAPIDS, MICH., April 20, 1900.

Leo A. Caro, City Comptroller:

The following is an inventory of property in my charge belonging to the First Sewer District:

1 cart.....	\$ 30 00
1 harness	15 00
1 old wagon	5 00
250 feet hose, large	112 50
100 feet hose, small	35 00
1 hose cart	10 00
1 pump	5 00
1 reel	2 00
3 palls	2 50
1 hydrant wrench	1 00
1 hydrant head	10 00
1 pair long boots	2 00
3 pair short boots	6 00
550 feet rope	30 00
20 sacks cement, old	5 00
Lot of old iron	20 00
1 ax	75
1 hatchet	50
1 trowel	75
6 cloth lines	75
Lot of plank and braces for sewers	25 00
5 lanterns, 50 cts.	2 50
100 feet gas pipes, 10 cts.	10 00
	<hr/>
	\$ 331 25

H. J. BROUWER,
Highway Commissioner First District.

Inventory of Gravel Pits.

GRAND RAPIDS, MICH., April 16, 1900.

Leo A. Caro, City Comptroller:

The following is an inventory of Gravel Pits belonging to the City of Grand Rapids:

Gravel pit on Hall Street, between Grandville Avenue and Hilton Street....	\$ 2,500 00
Gravel pit belonging to 11th ward.	200 00
Gravel pit belonging to 10th ward	200 00

H. J. BROUWER,
Highway Commissioner.

Inventory of Stone Crusher and Engine.

GRAND RAPIDS, MICH., April 16, 1900.

Leo A. Caro, City Comptroller:

The following is an inventory of Stone Crusher and Engine belonging to the City of Grand Rapids:

1 stone crusher and tools belonging to same.	\$ 900 00
1 engine.....	450 00
1 building to cover engine and crusher	100 00

H. J. BROUWER,
Highway Commissioner.

Inventory Second Highway District.

GRAND RAPIDS, MICH., April 18, 1900.

Leo A. Caro, City Comptroller:

Following is the inventory of the city property this date in my charge, used in Second Highway District:

1 horse.....	75 00
1 buggy.....	40 00
1 sleigh.....	8 00
1 robe.....	6 00
2 blankets, 50c and \$3 00.....	3 50
1 oil cloth cover.....	1 00
1 halter.....	1 00
1 harness.....	7 00
1 sleigh bells.....	1 00
1 dump wagon.....	30 00
1 plow.....	4 00
1 road scraper.....	2 00
12 snow plows.....	115 00
5 street scrapers.....	5 00
1 hose cart.....	15 00
300 feet hose.....	130 00
1 hydrant head.....	10 00
30 hoes.....	13 00
4 8-tine forks.....	4 00
1 6-tine fork.....	50
10 grub hoes.....	5 00
18 picks.....	6 50
4 brush hooks.....	5 00
2 cross cut saws.....	3 00
¼ dozen brooms.....	1 50
2 steel brooms.....	90
5 lanterns.....	2 35
7 rakes.....	3 00
1 hand saw.....	1 00
1 adze.....	50
2 pair rubber boots.....	8 00
1 comb and brush.....	50
2 wheel barrows.....	2 00
8 heavy pails.....	5 00
2 iron bars.....	1 25
1 iron pounder.....	1 00
2 trowels.....	1 00

REPORT OF COMPTROLLER.

1 level.....	50
1 square.....	50
1 chopping axe.....	50
2 paving hammers.....	2 00
2 wood pounders.....	4 00
1 hand axe.....	75
9 scoops.....	4 00
4 shovels.....	2 00
1 sweeper.....	395 00
300 feet rope.....	1 50

 \$ 859 25

Respectfully submitted,
 JAMES SHERLOCK,
 Highway Commissioner Second District.

Inventory Third Highway District.

Leo A. Caro, City Comptroller:

The following is an inventory of property in my charge belonging to the Third Highway District on April 18, 1900:

1 horse.....	\$ 100 00
1 buggy.....	20 00
1 cutter.....	15 00
1 harness.....	5 00
1 street sweeper.....	300 00
1 broom machine.....	15 00
Cobble stone on hand.....	5 00
12 snow plows.....	70 00
36 new street hoes.....	36 00
12 old street hoes.....	8 40
15 snow shovels.....	7 50
5 scoop shovels.....	2 50
9 street scrapers.....	9 00
3 rakes.....	75
1 hand saw.....	50
1 crosscut saw.....	75
4 hand carts.....	100 00
6 helmets.....	3 50
3 rubber scrapers.....	1 50
2 stoves and pipe.....	5 00
2 pounders.....	1 50
3 scythes.....	2 25
1 wagon.....	5 00
1 horse blanket.....	5 00
1 robe, heavy.....	50
9 heavy stable brooms.....	2 25
7 stout boxes.....	3 50
1 foot stamps.....	75
7 picks.....	3 50
1 sprinkling wagon.....	60 00
300 feet old curb stone.....	30 00
1 grind stone.....	3 00
6 scraper handles.....	1 50
2 chairs.....	1 00
3 street carts.....	60 00
	<hr/>
	\$ 885 15

PETER McINTOSH,
Commissioner.

Inventory Third Sewer District.

Leo A. Caro, City Comptroller:

The following is an inventory of property in my charge belonging to the Third Sewer District:

1 slusher.....	\$ 3 50
1 plow.....	3 00
6 pair rubber boots.....	12 00
1 harness.....	15 00
200 feet hose.....	60 00
100 feet small hose.....	10 00
300 feet of rope.....	10 00
1 level.....	75
36 picks.....	18 00
35 pick handles.....	5 00
4 grub hoes.....	2 00
1 adze.....	50
8 feet heavy chain.....	2 00
1 crow bar.....	1 00
1 windlass.....	5 00
2 brass nozzles.....	5 00
8 shovels.....	6 00
1 buck saw.....	60
2 pails.....	1 00
1 rope and hook.....	30
7 lanterns.....	3 50
1 oil can.....	75
1 trowel.....	1 25
1 long handled shovel.....	75
2 sledge hammers.....	2 50
5 wheelbarrows.....	12 00
2 galvanized pails.....	1 00
1 square.....	25
4 barrels cement, Louisville.....	8 00
6 iron rods.....	3 00
1 hand axe.....	75
2 bales fiber.....	6 00
	\$ 205 40

PETER MCINTOSH,
Commissioner.

Inventory City Marshal.

Leo A. Caro, City Comptroller:

Below is the inventory of lumber and supplies on hand in the Marshal's office, Grand Rapids, Mich., April 9, 1900:

54 pieces 2 x 6- 6.....	394 feet.....	
50 pieces 2 x 8- 6.....	400 feet.....	
63 pieces 2 x 10- 6.....	630 feet.....	
25 pieces 2 x 4-16.....	287 feet.....	
Total	1,621 feet at \$16 00 per M.....	\$ 25 94

TOOLS AND NAILS.

2 hand carts at \$13.00.....	\$	26 00
1 tool box.....		5 00
1 crow bar 75c, 1 padlock 65c.....		1 40
1 shovel 75c, 1 broom 90c.....		95
1 steel snow pick 50c, 1 wire stretcher 75c.....		1 25
136 booths at \$6.00.....		930 00
208 lamps at 35c.....		72 80
Gates and railings.....		90 00
83 tables at \$1.20.....		96 00
25 tables at \$1.35.....		33 75
1 keg spikes \$3.85, 1 keg 8d nails \$4.10.....		7 95
1 hand saw \$1.50, 1 hammer 65c.....		2 15
1 oil can and funnel.....		60
2 hand axes at 85c.....		1 70
1 pick and handle.....		75
1 adze and handle.....		1 50
Total	\$	1,297 74

THOMAS J. GLEASON,
City Marshal.

Inventory of Material on hand in Greenwood Cemetery.

GRAND RAPIDS, MICH., April 13, 1900.

Leo A. Caro, City Comptroller:

The following is an inventory of all property belonging to the City of Grand Rapids in Greenwood Cemetery:

150 feet 3-inch pipe.....	\$	15 00
100 feet 2½-inch pipe.....		10 00
150 feet cedar posts..		15 00
100 feet wooden stakes		1 00
125 feet permit board.....		1 75
38 standing sprinklers.....		30 00
4 lawn mowers		15 00
7 garden rakes.....		1 75
4 lawn rakes.....		1 00
2 scythes and snaths.....		1 00
1 post auger.....		75
2 picks.....		75
1 grub hoe		50
6 shovels.....		1 50
4 pair pipe tongs.....		8 00
2 pair box tongs.....		1 00
1 office desk.....		50
7 chairs		3 50
1 clock		3 00
1 hand saw.....		25
1 one-man saw.....		1 25
2 stoves.....		8 00
1 ink stand		25
4 sets grave straps.....		6 00
6 cast iron hitching posts.....		9 00
2 wheel barrows.....		1 00
2 canvas.....		8 00
2000 ¾-inch rubber hose.....		200 00
1 stone step.....		2 00
2 crow bars.....		2 00
1 grind stone		2 00
2 wheel scrapers.....		25 00
1 iron safe.....		40 00
6 sets grave plank.....		6 00
2 refuse baskets		50
1 snow scraper.....		2 00
2 sod cutters.....		2 00
1 spade.....		25
3 snow shovels		1 20
300 Terra Cotta lot markers		30 00

\$ 436 70

ROBERT LAMPSON,
Superintendent.

Inventory of Valley City and Oak Hill Cemeteries,

GRAND RAPIDS, MICH., March 29, 1900.

Leo A. Caro, City Comptroller:

The following is an inventory of property in Valley City and Oak Hill Cemeteries in my charge on the above date:

178 iron corner posts @ 14c.....	\$	24 92
Miscellaneous pipe fittings.....		2 00
800 feet of old hose @ 6c.....		48 00
1 stock and dies.....		12 00
1 stock and dies.....		6 00
5400 feet of new hose @ 13c.....		102 00
1 pipe cutter.....		1 00
2 pair of pipe tongs.....		3 00
1 pipe vice.....		2 00
2 1-gallon oil cans @ 10 c.....		20
2 iron wheelbarrows.....		7 50
300 tile markers @ 5c.....		15 00
628 plain markers @ 4c.....		25 12
1 push cart.....		5 50
1 step ladder.....		1 25
6 set of straps.....		5 00
4 shovels @ 75c.....		3 00
1 scuffle hoe.....		1 20
3 wire-tooth rakes.....		60
2 steel edgers.....		1 00
1 chisel.....		25
1 spirit level.....		60
1 rimmer.....		50
2 tape pipe.....		1 75
1 screw drill.....		15
1 box, tool chest.....		50
1 sod shovel.....		75
6 lawn mowers.....		48 00
1 pick.....		75
1 grub hoe.....		1 00
1 oil tank, 5 gallons.....		1 00
2 screw drivers @ 15c.....		30
1 coffin hook.....		1 00
3 lamps.....		9 45
2 piano boxes.....		2 00
6 mole traps.....		5 00

1 turkey duster.....	15
1 dust pan.....	10
2 water pails.....	1 00
1 water basin.....	15
2 forks.....	1 00
1 plane.....	50
2 hammers.....	1 01
1 washer cutter.....	30
1 tile brush.....	1 50
2 mirrors.....	4 80
1 flat top office desk.....	10 00
1 couch.....	4 00
3 camp chairs.....	1 50
1 rocker.....	2 00
1 rattan seat arm chair.....	75
1 five foot table.....	2 00
1 old mirror.....	1 00
1 new roll top desk.....	18 50
3 new chairs.....	18 00
3 benches.....	26 00
1 water tank desk.....	5 00
2 crow bars.....	2 00
6 iron garden rakes @ 60c.....	3 60
2 axes @ 80c.....	1 60
1 dipper.....	10
1 roller.....	11 00
1 24-foot tent.....	24 00
1 chain and posts.....	6 00
2 side curtains for tent.....	3 00
4 hoes @ 30c.....	1 20
1 weed cutter.....	30
2 hay rakes.....	30
2 old lawn mowers.....	4 00
2 iron shovels.....	50
1 stove.....	4 00
Felt cloth.....	5 00
6 casket holders @ 25c.....	1 50
1 pair of pruning shears.....	40
2 water keys.....	2 00
125 stand pipe sprinklers @ 50c.....	62 50
40 yards of rubber duck.....	41 00
2 grind stones.....	6 00
1 urn.....	1 25
1 lantern.....	1 00
1 iron bottle.....	1 00
2 pair large pipe tongs.....	6 00
1 chain tong.....	1 50
3 oil cups @ 15c.....	45
3 set of canvass.....	20 00
1 pipe wrench.....	1 00
1 breast drill.....	4 00
1 set of drills.....	2 00
1 brase.....	1 00

CITY OF GRAND RAPIDS, MICH.

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1 mason trowel.....	50
1 carpenter square.....	1 00
2 monkey wrenches.....	60
1 carpenter saw.....	25
1 draw shave	50
1 letter press	12 00
1 water cooler	4 50
1 waste basket.....	15
Total.....	\$ 1.278 50

EUGENE V. GOEBEL,
Superintendent.

Inventory of Tools in City Parks.

GRAND RAPIDS, MICH., April 17, 1900.

Leo A. Caro, City Comptroller:

The following is the inventory of tools in my charge
as Superintendent of City Parks:

East Side Parks.

1 extension ladder.....	\$ 3 00
2 sod cutters.....	50
4 snow shovels.....	2 00
Covers for Fulton Park Fountain.....	21 00
Covers for Monument Park Fountain.....	10 00
Covers for Crescent Park Fountain.....	18 00
Covers for Crescent Park Steps.....	10 00
4 wheelbarrows.....	4 00
120 seats.....	200 00
5 iron rakes.....	1 50
4 grass rakes.....	1 40
4 lawn mowers.....	36 00
2 rakes for leaves.....	1 00
1 hose wagon.....	1 50
1 water can.....	75
2 oil cans.....	50
2 ice scrapers.....	50
1 broom.....	25
4 shovels.....	2 00
1 spade.....	35
1 grass basket.....	50
2 grub axes.....	50
1 pruning shears.....	75
3 sheep shears.....	75
3 hoes.....	35
2 picks.....	75
1 hand axe.....	75
1 hammer.....	25
2 sickles.....	50
1 G. S. pail.....	50
1 hand saw.....	1 00
2 grind stones.....	4 00
2 screw drivers.....	50
2 monkey wrenches.....	1 50
3 tripods.....	6 00

8 hanging baskets.....	10 00
8 rustic vases.....	25 00
4 small water keys.....	2 00
2 water keys, large.....	2 00
450 feet of 1¼-inch hose.....	105 00
1 snow plow.....	5 00
13 flower basket hangers.....	1 50
12 signs.....	50
3 locks.....	50
1 scoop shovel.....	50
Total.....	\$ 481 85

Respectfully submitted,
WENCEL L. CUKERSKI,
 Superintendent City Parks.

John Ball Park.

11 wheelbarrows.....	\$ 10 00
1 grain box.....	2 50
2 park stamps.....	2 00
1 lawn roller.....	8 00
1 ice box.....	4 00
1 gutter pounder.....	50
5 sod spades.....	4 00
8 hoes.....	2 00
1 paving hammer.....	40
32 shovels.....	18 00
11 grub axes.....	8 00
8 picks with handles.....	4 00
5 grub hoes.....	1 75
5 picks, no handle.....	1 25
38 feet of chain.....	3 00
3 scoop shevels.....	1 50
10 forks.....	4 00
15 sod cutters.....	4 75
16 brooms.....	5 00
3 leaf baskets.....	75
100 feet of wire cable.....	5 00
50 feet of rope and pulleys.....	7 00
20 sash.....	18 00
3 oil cans.....	75
1 aug r.....	50
6 hand saws.....	4 50
2 axes.....	1 50
1 broad axe.....	75
2 saw clamps.....	1 00
1 level.....	1 00
2 crow bars.....	3 00
1 spade.....	50
10 rakes.....	2 25

1 hand axe.....	75
3 scythes and snath.....	1 70
4 lawn mowers.....	32 00
2 lawn mowers, old.....	2 00
350 feet of 1½-inch hose.....	75 00
1 sickle.....	50
2 grind stones.....	3 00
1 snow plow.....	2 00
1 flower wagon.....	50 00
1 lumber wagon.....	25 00
1 sprinkling wagon.....	75 00
1 plow.....	4 00
4 scrapers.....	4 00
18 bicycle racks.....	20 00
3 ladders.....	3 00
3 tree trimmers.....	3 00
3 lanterns.....	1 00
2 pipe wrenches.....	4 00
2 monkey wrenches.....	4 00
2 hammers.....	50
1 pliers.....	50
2 saw sets.....	1 00
1 wire shears.....	50
1 shot gun.....	8 00
6 paint brushes.....	1 50
1 paving hammer.....	75
1 chisel.....	50
1 grass shears.....	1 50
3 lamps.....	1 50
1 carpenter's bench.....	2 00
30 chairs.....	8 00
300 seats.....	450 00
20 tables.....	40 00
3 wheel barrows for hose.....	3 00
2 force pumps.....	5 00
8 pieces stove pipe.....	1 50
2 cross cut saws.....	3 00
2 sledge hammers.....	2 00
1 pruning shears.....	1 00
1 sand screen.....	1 00
1 rod shears.....	50
2 water keys.....	2 00
3 sheep shears.....	75
5 mole traps.....	2 50
5 hose nozzles.....	3 00
25 signs.....	10 00
1 sheet-iron smoke stack.....	3 00
1 post hole digger.....	75
1 manure box.....	3 00
2 cleavers.....	1 00
3 pair rubber boots.....	4 00
4 steel traps.....	1 00
1 boat.....	2 00

1 stove	2 00
¼ barrel disinfectant.....	1 50
6 barrels.....	3 00
5 bird cages, iron.....	45 00
3 bird cages, wooden.....	30 00
4 pails.....	1 50
1 flower tub.....	2 00
30 feet of 4-inch iron pipe.....	15 00
1 fountain sprinkler.....	5 00
1 office table.....	4 00
1 office desk.....	14 00
Lumber on hand.....	10 00
Sewer pipe on hand.....	20 00
1 fountain basket.....	1 00
¼ can boiler compound.....	3 00
1 gasoline can.....	2 00
1 kerosene can.....	2 00
3 iron wedges.....	1 00
2 steel brushes.....	50
1 elk's head.....	10 00
1 buggy and harness.....	45 00
1 horse.....	75 00
1 cutter.....	20 00
1 blanket.....	1 00
1 robe.....	5 00
1 rubber cover.....	1 00
1 stable blanket.....	75
Brick on hand.....	3 00
Curb stone on hand.....	5 00
Total.....	\$ 1,854.90

Respectfully submitted,
WENCEL L. CUKERSKI,
 Superintendent City Parks.

Lincoln Park.

100 feet of 1½ hose.....	\$ 95 00
300 feet of ¾ hose.....	35 00
10 sprinklers with pipe.....	15 00
5 tables.....	7 50
4 sod cutters.....	1 00
4 hoes.....	1 00
2 weed diggers.....	1 50
2 shovels.....	1 00
4 rakes.....	1 50
1 lantern.....	35
1 hand saw.....	1 00
2 lawn mowers.....	10 00
2 mole traps.....	50
2 oil cans.....	50

50 seats.....	75 00
2 spades.....	1 50
1 nozzle.....	75
1 grind stone.....	1 50
2 wheel barrows.....	1 50
6 bicycle racks.....	12 00
1 extension ladder.....	3 00
1 sprinkling can.....	50
1 tub.....	50
1 barrel.....	50
1 scythe and snath.....	75
1 sheep shears.....	25
1 broom.....	15
6 signs.....	2 00
1 water key.....	75
1 grass basket.....	50
2 water keys, small.....	1 00
2 grub axes.....	1 00
Fountain covers.....	2 50
Total	\$ 206 50

Respectfully submitted,
WENCEL L. CUKERSKI,
 Superintendent City Parks.

Inventory City Greenhouses.

40000 pots	
800 boxes	
3 water cans	
5 thermometers	
1 broom	
1 lamp.....	
3 lanterns.....	
Total value.....	\$ 630 00
Ornamental plants	
Palms in varieties.....	
Geraniums.....	
Cannas in varieties.....	
Escheocrias.....	
Caladiums	
Colens in varieties.....	
Begonias.....	
Alternantheras	
Summer plants	
The value of all plants	\$ 3,035 00
The value of Greenhouse buildings	6,500 00
The value of pots, boxes, etc	680 00
Total.....	\$ 12,155 00

Respectfully submitted,
WENCEL L. CUKERSKI,
 Superintendent City Parks.

Board of Poor Commissioners.

GRAND RAPIDS, MICH., April 19, 1900.

Leo A. Caro, City Comptroller:

The following is an inventory of stock on hand as per storekeeper's report:

Supplies on Hand for the Year Ending April 18, 1900.

2476 lbs. flour.....	\$ 41 06
128 lbs. pork.....	8 38
18½ lbs. coffee.....	2 23
230 lbs. sugar.....	12 79
227 lbs. salt.....	84
240 bars soap.....	9 84
4¼ gallons kerosene.....	28
778 boxes matches.....	7 14
8½ gallons syrup.....	1 40
416 lbs. rice.....	21 84
	<hr/>
	\$ 106 19
Paper sacks and paper on hand.....	9 50

Salable Stock in Care of Supply Store.

16 grain bags, old.....	\$ 80
3 sugar bbls.....	30
10 pork bbls.....	2 50
35 lbs. tea lead.....	88
30 soap boxes.....	1 50
	<hr/>
	\$ 5 98
	<hr/>
	\$ 190 58
Stock on hand in dispensary April 18, 1900.....	\$ 97 53

List and Cost of Fixtures in Care of Supply Store.

1 tea can.....	\$ 75
2 scoops.....	50
6 barrel covers.....	88
3 hatchets.....	50
4 scoops.....	25
1 quart measure.....	05

4 tin funnels.....	10
1 pork hook.....	25
1 one-quart measure and funnel	25
1 butcher knife	40
2 peck measures, sheet iron.....	50
1 potato scoop.....	1 95
1 sharpening steel.....	25
1 fruit auger.....	75
1 auger.....	25
1 buck saws	5 00
1 set Trommer scales, No. 3.....	14 90
1 self-measuring syrup pump	4 00
4 stone hammers.	2 74
1 meat scale.....	5 00
1 platform scale.....	10 00
1 saw vice.....	45
1 saw set.....	15
1 set counter scales (small)	
1 syrup truck (old)	
1 meat cleaver.....	
1 oil tank (old)	
5 100-lbs. coffee bins, (B. B. P. Co.)...	
1 brace and bit.....	1 00
1 paper cutter.....	1 00
	<hr/>
	\$ 51 17

Respectfully submitted,

JOHN KREMERS,

Storekeeper.

Bonded Indebtedness, April 13, 1899.

Water works loan	\$ 855,000 00
City hall loan	180,000 00
Street improvement loan	330,000 00
Special loan	180,000 00
School bonds, city	275,000 00
School bonds assumed by annexation	17,500 00
Market site	75,000 00
Electric light	125,000 00
Total	\$1,997,500 00

Bonds paid from April 13, 1899 to April 19, 1900.

Street improvement loan	\$ 90,000 00
School bonds	20,500 00
Total	\$ 110,500 00

Bonds Issued May 1, 1899.

Street improvement loan	\$ 200,000 00
	\$ 260,000 00
Bonded indebtedness April 19, 1900	2,087,000 00

REPORT OF COMPTROLLER.

Statement of Bonded Indebtedness

ON APRIL 13, 1899.

WATER WORKS LOAN.

Series	Date of Issue	Class and Number	Amount Per Bond	Rate of Interest	Total Amount	Date of Maturity
Fourth.....	Sept. 1, 1888	Nos. 1 to 30	\$ 5,000 00	5 per cent.	\$150,000	Sept. 1, 1908
Fifth.....	May 1, 1889	" 1 to 80	1,000 00	5 per cent.	80,000	May 1, 1909
Sixth.....	Jan. 1, 1892	" 1 to 300	1,000 00	4½ per cent.	300,000	Jan. 1, 1912
Seventh.....	Oct. 1, 1893	" 1 to 25	1,000 00	4½ per cent.	25,000	Oct. 1, 1913
Eighth.....	Jan. 1, 1895	" 1 to 100	1,000 00	4 per cent.	100,000	June 1, 1915

Total.....\$355,000 00

CITY HALL LOAN.

First.....	July 1, 1884	Nos. 1 to 150	\$ 1,000 00	5 per cent.	\$150,000	July 1, 1904
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STREET IMPROVEMENT LOAN.

Series	Date of Issue	Class and Number	Amount Per Bond	Rate of Interest	Total Amount	Date of Maturity
1896-97.....	May 2, 1897	Class E-50	\$ 1,000 00	5 per cent.	\$ 50,000	May 2, 1900
1896-97.....	May 2, 1897	Class E-50	1,000 00	5 per cent.	50,000	May 2, 1901
1897-98.....	May 1, 1898	Class F-40	1,000 00	5 per cent.	40,000	May 1, 1900
1897-98.....	May 1, 1898	Class F-40	1,000 00	5 per cent.	40,000	May 1, 1901
1897-98.....	May 1, 1898	Class F-40	1,000 00	5 per cent.	40,000	May 1, 1902
1897-98.....	May 1, 1898	Class F-40	1,000 00	5 per cent.	40,000	May 1, 1903
1898-99.....	May 1, 1899	Class G-40	1,000 00	5 per cent.	40,000	May 1, 1901
1898-99.....	May 1, 1899	Class G-40	1,000 00	5 per cent.	40,000	May 1, 1901
1898-99.....	May 1, 1899	Class G-40	1,000 00	5 per cent.	40,000	May 1, 1902
1898-99.....	May 1, 1899	Class G-40	1,000 00	5 per cent.	40,000	May 1, 1903
1898-99.....	May 1, 1899	Class G-40	1,000 00	5 per cent.	40,000	May 1, 1904

Total.....\$460,000 00

SPECIAL BONDS TO PAY FLOATING DEBT.

First.....	May 1, 1895	Class A-150	\$ 1,000 00	4 per cent.	\$150,000	May 1, 1905
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Total.....\$150,000 00

MARKET SITE BONDS.

First.....	May 2, 1896	Class A-75	\$ 1,000 00	4 per cent.	\$ 75,000	May 2, 1916
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Total.....\$ 75,000 00

ELECTRIC LIGHT BONDS.

First.....	May 2, 1897	Class A-125	\$ 1,000 00	4 per cent.	\$125,000	May 2, 1917
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Total.....\$125,000 00

SCHOOL BONDS.

DATE OF ISSUE	RATE OF INTEREST	AMOUNT	DATE OF MATURITY
June, 1, 1883	5 per cent	\$ 10,000 00	June 1, 1903
October 1, 1884	5 "	9,000 00	October 1, 1900
October 1, 1884	5 "	9,000 00	October 1, 1901
October 1, 1884	5 "	9,000 00	October 1, 1904
September 1, 1889	4 "	10,000 00	September 1, 1902
November 20, 1885.	4 "	21,000 00	November 20, 1905
February 5, 1887	4 "	21,000 00	February 4, 1907
June 2, 1890	4 "	8,000 00	June 2, 1910
October 1, 1891	4½ "	55,000 00	October 1, 1911
June 1, 1892	4½ "	25,000 00	June 1, 1906
June 1, 1892.. . . .	4½ "	25,000 00	June 1, 1908
June 1, 1892.. . . .	4½ "	23,000 00	June 1, 1909
June 1, 1892.. . . .	4½ "	12,000 00	June 1, 1910
June 1, 1892.. . . .	4½ "	28,000 00	June 1, 1912
Total		\$ 365,000 00	

SCHOOL BONDS ASSUMED BY THE CITY BY ANNEXATION.

RATE OF INTEREST	AMOUNT	DATE OF MATURITY
6 per cent	\$ 5,000 00	July 1, 1906
6 per cent	2,000 00	July 10, 1900
Total		\$ 7,000 00

RECAPITULATION.

Water Works Loan	\$ 885,000 00
City Hall Loan	150 000 00
School Bonds	272,000 00
Street Improvement Loan	460,000 00
Special Bonds	150,000 00
Market Bonds	75 000 00
Electric Light Bonds	125,000 00
Grand total	\$ 2,087,000 00

Recapitulation of Assets and Liabilities, April 19, 1900.

ASSETS.

City hall	\$ 300,000 00
Parks.....	333,000 00
Market site	85,000 00
Cemeteries.....	355,184 04
Water works system	1,241,000 00
Settling basin.....	15,000 00
Standpipe lot.....	500 00
Reservoir.....	20,000 00
Pumping station	30,000 00
Fire engine houses	103,154 90
Public schools.....	1,133,400 00
Bridges.....	116,950 00
Hospital and laboratory	12,800 00
Police headquarters.....	66,000 00
Fire department, personal.....	112,322 64
Police department, personal.....	21,528 62
City hall, personal.....	25,000 00
Schools, personal.....	54,000 00
Cemeteries, personal.....	1,715 27
Highways and sewers, personal	2,730 65
Parks, personal.....	2,043 25
Lumber, booths, lamps, etc., personal.....	1,297 74
Public library	66,000 00
Garbage burner.....	15,000 00
Electric light plant	185,000 00
Valid tax-titles owned by the city.....	3,679 51
Cash in depository 5 year improvement fund.....	\$ 236,592 77
Cash in depository water works and water works income funds..	5,453 57
Cash in sinking fund	136,175 73
Cash in depository belonging to other funds.....	121,567 94
Total cash in depository.....	\$ 498,880 01
Value of greenhouse and contents.....	12,155 00
Value of mdse. in supply store.....	120 58
Value of drugs in poor department.....	97 53
Bridge plank on hand	262 50
Stone crusher, engine, house and tools.....	1,450 00
Grand total	\$4,715,312 24

Second Recapitulation, April 19, 1900.

Bonded debt.....	\$2,087,000 00
Assets over liabilities.....	2,626,499 46
Increase in assets over 1898 1899.....	167,124 67
Increase in bonded debt over 1898 1899	89,500 00

Statement of Assessed Valuation of City.

FROM 1877 TO 1900 INCLUSIVE.

1877.....	\$ 8,833,344 00
1878.....	8,672,020 00
1879.....	8,652,761 00
1880.....	8,808,202 00
1881.....	8,958,924 00
1882.....	18,915,758 00
1883.....	19,084,012 00
1884.....	19,713,610 00
1885.....	19,996,811 00
1886.....	20,328,115 00
1887.....	20,380,477 00
1888.....	21,174,117 00
1889.....	21,411,314 00
1890.....	21,625,202 00
1891.....	23,000,000 00
1892.....	23,500,000 00
1893.....	24,000,000 00
1894.....	24,500,000 00
1895.....	26,000,000 00
1896.....	27,750,000 00
1897.....	27,695,000 00
1898.....	27,758,201 00
1899.....	27,771,186 00
1900.....	43,284,021 00

REPORT OF COMPTROLLER,

BILLS REPORTED BY COMPTROLLER WITHOUT RECOMMENDATION—1899-1900.

Date of Bill	Name of Claimant	For What Purpose	Amount	When reported by Comptroller	Where Referred	How and When Recommended
1899				1899		
May 6 ...	W. G. Robinson ...	Specifications and Plans	\$ 12 50	May 15 ...	Claims & Ac'ts Com.	Allowed and included in Comptroller's Report May 22, 1899.
Feb. 22 ...	Weatherly & Fulte ...	Fixtures for Superior Court.	3 10	May 15 ...	" "	Allowed and included in Comptroller's Report May 22, 1899.
May 22 ...	Henry Schlless ...	Building Wall Electric Light Plant.	.....	May 22 ...	" "	Referred back to Board of Pub. Works July 17.
May 25 ...	H. W. Catlin, M. D.	Services Ass't Dr. Burkhart.	17 00	May 29 ...	" "	Report not to allow June 5, 1899.
April 10..	Liszt Male Quartet	Services at Soldier's Funeral.	20 00	June 5.....	" "	Report to allow at \$15.00 June 26, 1899.
June 17..	H. R. Ellis.	Services in Attorney's Office.	75 00	June 26.....	" " and City Attorney	Report not to allow July 10, 1899.
June 24..	Albert Prange.....	Roadway to Crematory..	469 66	June 26.....	Common Council....	Report to allow from General Fund July 3
June 3... ..	Road Roller.....	Rolling Shawmut Ave. Sewer.	10 00	June 26.....	Com. on Sewers	Report to refer back to Board of Public Works July 3.
July.....	D. A. Blodgett.....	Rental of lots for storage	80 00	July 10 ..	Claims & Ac'ts Com.	Report to allow July 17, 1899, not stating fund.
July.....	D. A. Blodgett.....	" "	80 00	Aug. 21.....	Ways & Means Com.	Report to pay from General Fund Aug. 28, 1899.
July	James McDermott	Dirt and labor Bridge St. Bridge	40 40	Aug. 28.....	Claims & Ac'ts Com.	Allowed from Bridge St. Approach Fund Sept. 5, 1899.
Aug. 18..	Wm. Voss	Trough and labor	14 00	Aug. 28 ..	" " and Ald. 5th Ward	Report to allow from Fifth Ward Highway Sept. 11, 1899.
Sept. 6...	Martin & Wurzburg...	Document Envelopes ...	6 50	Sept. 11	Claims & Ac'ts Com.	Report to allow Sept. 25, 1899.
Sept. 6...	Hensen & Johnson ...	Calendars and Jury Lists	38 80	Sept. 11	" "	Report to allow Sept. 25, 1899.

Oct. 23...	G. C. Prange..	Sewer Work on Trow- bridge St.... ..	7 00	Nov. 6.	" " "	Report to allow Nov. 13, 1899.
Dec. 1...	G. R. E. L. & P. Co ...	Lighting.... ..	4,230 53	Dec. 4	" " "	
Dec.	Leitelt Iron Works. ..	Sewer Grates.....	10 00	Dec. 11.....	and Public Light- ing Committee....	Report to allow Dec. 18, 1899 at \$4,123.73.
Dec.	West Mich. Ptg. Co....	Printing Brief City vs. R. DeVries.....	54 60	Dec. 11	Claims & Ac'ts Com.	Report to return bill to make Dec. 26, 1899.
Dec.	D. A. Blodgett.	Storing Lamp Posts ..	7 50	.....	" " "	Report to return bill to make Jan. 8, 1900.
April 25.	Samuel M. Gray.	Services Water Com	1,800 00	Jan. 8	Pub. Lighting Com...	No report.
Feb....	John Leys	Labor on Streets	5 26	Feb. 12.....	Claims & Ac'ts Com.	Report to allow from General Fund May 7, 1900.
					" " "	Report to allow from Second Ward Highway Feb. 23, 1900.

Orders in Comptroller's Office, April 19, 1900:

GENERAL.

2340	A. L. Beers.....	\$ 6 00
2280	F. W. Berles.....	6 00
2254	F. Gaekel.....	2 00
2158	E. Hamilton.....	2 00
2105	Wm. Hull.....	6 00
2227	F. Lee.....	6 00
2335	J. McLachlan.....	6 00
2067	J. McLachlan.....	3 00
2356	T. W. Strahan.....	6 00
2165	A. A. Stevens.....	2 00
2115	J. Van Alstine.....	6 00
99	J Van Rossen.....	6 00
2079	Ed Whalen.....	6 00
2003	Edmund Whalen.....	3 00
1787	C. C. Hopkins.....	1 00
2394	H. C Stevens.....	3 30
2361	Arbeiter aid society.....	25 00
2393	C. A. Balsh.....	50
1403	Chas. Brenner.....	7 00
1571	Chas. Brenner.....	7 00
2408	Chas. Brenner.....	7 00
1578	Columbian Transfer Co.....	25
2364	Converse & Chick.....	11 00
2373	J. Dupree & Co.....	35 48
2372	Foster, Stevens Co.....	3 75
1811	Foster, Stevens Co.....	1 70
2378	Samuel Fox.....	20 00
2374	Mary Marshall.....	8 41
2376	Thomas M. Peck.....	57 08
1556	Gelock Transfer Co.....	8 50
2365	Germania Aid Society.....	25 00
1776	Grand Rapids Gas Light Co.....	117 64
1422	Grand Rapids Paint and Wood Finishing Co.....	1 50
1757	Harris Paper Co.....	6 24
1802	Wm M. Hine.....	12 05
1788	E. Kilstrom.....	6 60
1995	D. E. Lozier.....	12 00
2366	Peoples Savings Bank.....	11 43
1760	L. S. Provin.....	15 00
2396	J. Reelman.....	20 00
2377	H. J. Schmidt.....	20 00
2390	Thos. B. Sebring.....	15 00
1575	Sproul McGurrin.....	60
2385	West Michigan Printing Co.....	5 50
2360	L. J. Katz.....	20 00
Total.....		\$ 551 53

FIRE DEPARTMENT.

2432	Duggan Bros.....	\$	3 50
2428	Alden & Judson.....		11 55
1841	Chas. A. Coye.....		70
2434	Paul Eifert.....		4 55
1839	G. R. Gas Light Co.....		55
2436	G. R. Gas Light Co.....		24 20
9427	Hanna Oil Co.....		2 25
2426	Hazeltine & Perkins.....		16 00
1001	Hazeltine & Perkins.....		6 50
2433	Hooper Bros.....		18 55
2430	Hutchinson & Haynes.....		14 40
2424	H. Leonard & Sons.....		10 50
2425	Slooter Bros.....		8 50
9510	H. Thurkettle.....		1 50
2435	Geo. Van Der Meer.....		4 80
2423	Worden Grocer Co.....		10 55
Total.....			\$ 133 60

POLICE DEPARTMENT.

2442	Duggan Bros.....	\$	11 35
2445	G. R. Gas Co.....		21 40
2444	J. C. Herkner.....		1 00
2443	H. Leonard Sons.....		60
1845	Worden Grocery Co.....		3 40
	F. B. Fee.....		17 50
Total.....			\$ 55 25

POOR.

1612	A. Preusser.....	\$	1 00
1854	P. J. Dykema.....		3 60
Total.....			\$ 4 60

GREENHOUSE.

2452	M. Wiswreski.....	\$	11 75
1863	Clark-Jewell-Wells Co.....		5 50
Total.....			\$ 17 25

HEALTH.

1882	Park, Davis Co.....	\$	1 50
2457	W. O. Brown.....		10 00
1880	Church & West.....		1 65
1887	Wm. M. Hine.....		40
1881	Walter K. Schmidt.....		4 13
Total.....			\$ 17 68

REPORT OF COMPTROLLER,

BRIDGE STREET BRIDGE APPROACH.

2402	General Fund.....	\$	20 00
	Total	\$	20 00

ELECTRIC LIGHT.

1906	Hopson-Haftencamp Co.....	\$	95
715	O. A. Ball.....		2 00
39722	F. Gorman.....		25
2467	Harris Paper Co.....		9 40
1908	H. M. Reynolds.....		11 04
1906	Stiles Bros.		5 90
1910	O. N. Watson.....		31 11
32850	A Youngs		90
	Total	\$	60 85

PUBLIC LIGHTING.

1914	Arctic Spring Water Co.....	\$	3 10
2476	Foster, Stevens Co.....		7 93
2474	Grand Rapids Electric Co.....		8 84
2477	Dr. R. Muir.....		4 00
1912	O. N. Watson.....		89 58
	Total	\$	113 45

WATER WORKS INCOME.

1947	G. F. Beardsley.....	\$	35
1946	J. W. Brour.....		35
2516	Evening Press Co		4 52
1948	David Forbes.....		50
1687	Samuel Fox ...		4 07
1686	German Lutheran Church.....		3 67
2515	Grand Rapids Ice & Coal Co.		2 50
2517	Grand Rapids Herald.....		6 29
2520	Thos. Dunn & Sons.....		21 81
1937	Wm. M. Hine.....		11 20
1498	W. H. Horie ...		1 50
2511	I. B. Mathewson		42
1961	R. E. Shanahan.....		50
1945	C. R. Williams . .		50
	Total	\$	58 18

JOHN BALL PARK.

1953	John Clark.....	\$	2 00
2525	Mr. Miller.....		1 00
1333	F. E. Patterson		6 00
2526	Security Transfer Co.....		35
	Total	\$	9 35

PARK.

1015 A. J. Burnett Estate	\$	7 75
Total	\$	7 75

JUSTICE COURT.

1930 Wm. M. Hine.....	\$	0 65
Total	\$	0 65

SUPERIOR COURT.

1932 Wm. M. Hine.....	\$	8 35
Total	\$	8 35

FIRST SEWER DISTRICT

2544 Foster, Stevens Co.....	\$	45
2541 Third Sewer District.....		40 00
Total	\$	40 45

SECOND SEWER DISTRICT.

1939 Chas. Coye.....	\$	0 55
Total	\$	0 55

THIRD SEWER DISTRICT.

2547 Foster, Stevens Co.....	\$	21 02
Total	\$	21 02

FIRST WARD HIGHWAY

2551 Dolan & Muir.....	\$	5 20
Total	\$	5 20

THIRD WARD HIGHWAY.

2554 H. T. Baldwin.....	\$	6 65
Total	\$	6 65

WATER WORKS.

2435 N. T. Smith.....	\$	18 56
Total	\$	18 56

TENTH WARD HIGHWAY.

2562 John Kniper.....	\$	8 40
Total	\$	8 40

Grand total.....\$ 1,164 32

QUIT CLAIM DEEDS ISSUED BY THE CITY OF GRAND RAPIDS—1899-1900.

1899	To Whom Issued	Description of Property	No. of Certificate	Amount
April 26	N. W. Northrop	Lot 9, De Vries' 4th add.	16925	\$ 2 05
April 26	A. J. Stebbins	Lot 23, G. A. Wolf's add.	16999	5 94
April 26	Emma J. Cole	Lot 5, Namings, Oosting & Mienemas' add.	17795	1 59
April 26	Fifth National Bank	W. 1/4 of Lot 192, Kent plat.	16926	94 79
April 26	Frances Barnett	Lot 33, Davis, Turner & Carroll's add.	17340	6 29
April 26	J. A. Peeps	Lot 27, Bissell & Harlan's add.	16304-16596	14 74
April 27	C. S. Cemstock	Lot 16 and 17, Block 3, J. Penney's add.	17224	11 81
April 27	Sidney Beckwith	Lot 10, Baxter's sub.	17198	5 73
April 27	Marcus A. Brooks	Lot 11, blk 3, Winsor add.	14439-17638	10 44
April 27	Frank A. Bacon	Lots 3 and 7, Reynolds & Franklin's sub.	17514-15	3 91
April 27	Frank A. Bacon	Part lots 1, 3 and 3, Reynolds & Franklin's 3d add.	13414-16304	10 86
May 10	Mary E. Walker	Part of blk 2, Drew & Brown's add.	16736	5 48
May 10	Wm. Graves	Lot 7, blk 2, Ex. W. 50 ft., A. L. Chubb's add.	16309-16425	8 25
May 10	M. A. Bowman	Part of sec. 26-7-12,	17143	14 23
May 10	Townsend Smith	Part of sec. 26-7-12,	15394	4 93
May 10	Jas. McDermott & A. B. Knowlson	Part of sec. 19-7-11,	16353-16914-18463	79 03
May 10	C. W. Baxter	Lot 99, Estelle add.	17242	1 92
May 10	L. Vander Stolpe	N. 1/4 of lot 9, blk 2, Stocking & Smith's sub.	17062	4 45
May 10	Isabel A. Towne	Lot 88, Northrop's Fulton and Fuller St. add.	16503	5 85
May 10	German Evan. Lutheran Church	Lots 34 and 36, C. C. Pettibone's add.	17114	10 46
May 10	G. R. Bookcase Co.	Lots 4 and 5, blk 3, Scribner & Turner's 2d add.	17118	50 69

May 12	R. R. Buchanan	Lot 12, blk 3, L. Porter's add	17242	23 51
May 15	R. M. Ferguson, Adm	Lot 7, blk 2, Campbell & Underwood's W. P. add.	11290	5 77
May 15	Campbell Fair	Part of Lots 7 and 8, blk 3, Remington's add	17346	11 97
May 15	Wm. J. Stuart	S. 30 ft. of lot 3, blk 6, Centennial plat	17335	1 41
May 25	C. W. Kittle	Lots 32-37, Gilbert, Hopson & Griffith's	16749-50	6 92
May '95	Jacob Kroodsma	Lots 4 and 5, DeVries' 3d add	17788-89	9 06
May 24	S. H. Raymond, Gdn	Part of sec. 6-7-12	17728	25 99
May 25	Laura Berkey	Lots 9, 10, 11 and 13, Wolven's add	17065-6-7-8	7 36
May 27	L. B. Hess	Part of lot 24, P. Tregent's sub	15385-6	4 06
May 27	Isaac Bristol	Part of sec. 29-7-11	16644	34 44
May 29	L. B. Hess	Lots 24-42, B. C. & S. add.	16133	1 91
June 1	J. C. and E. A. Smith	Part of lot 7, blk 1, Withey's add.	10668	*
June 3	Thomas Hunter	Lot 10, B. F. Washburn's sub.	17266	1 90
June 8	Jno. C. Dunton	Part of lot 4, blk 5, Remington's add.	17250	10 05
June 8	Laura Berkey	Lot 55, blk 2, Caulfield's sub.	17780	6 29
June 8	Joseph Parble	Lot 2, blk 2 Oakdale Park 2d add.	17491	1 42
June 8	Fred'k Wallington	S. 1/2 of w 52, lot 9 Silas Hall's sub...	17111	5 47
June 8	Jno. Kuffaer	S. 1/2 of lots 101-102, Cumming & Ferry's	17110 1/2	6 51
June 9	Sarah M. Goebel	Lot 5, blk 15, A. L. Skinner's add.	15092 etc.	89 09
June 9	Ruwen Esengs	Lot 10, blk 4, Fisher's add	8911 etc.	62 50
June 13	Mary S. Silgh	Part lots 6 and 7, blk 3, L. Campan's 2d.	16523	84 77
June 13	Mary S. Silgh	{ Part lots 4-5-6-7-8, Crowley's add. and part sec 36-7-12	16456-7-8 9 00 01	43 34
June 17	Fred A. Maynard	Lot 281, Kent Plat.	16623	43 42

*To replace deed lost.

QUIT CLAIM DEEDS—Continued.

1899	To Whom Issued	Description of Property	No. of Certificate	Amount
June 21	Henry J. Ringold	Part of lot 3, Geo. Campau's plat	16411-17842-19761	\$ 86 34
June 22	Elizabeth S. Maynard	Part of sec. 23-7-12	17136	17 60
June 29	Old National Bank ..	Lots 4 and 5, S. 12½, lot 3, blk 5, Penney's add.	17227	50 58
July 7	Berean Baptist Church ..	Part of lot 1, blk 3, Comstock plat	16723	*
July 7	Fred F. Taylor	Part of sec. 29-7-11	10739-10636	*
July 11	Chas Chandler	Part of lot 24, Tregent's sub	15204	1 40
July 12	Wm. Alden Smith	Lots 29-30-31-32, W. A. Smith's sub.	16438-9-40-1	70 51
July 15	Joseph Rademaker	Part of sec. 29-7-11	16945-18487	31 55
August 3	Robert P. Clapp ..	Lot 7, blk 23, Shepard's add	16443-19738	17 70
August 3 ..	C. A. Taylor	Lts 22-23 & pt 24, Campbell & Underwood's W. P. add	17389-90-1	8 36
August 12 ...	L. D. and O. C. Osborn	Part of sec. 20-7-11 ..	16645	7 66
August 12 ...	Jno. T. Byrne	Lot 364, Kent plat	16633	13 82
August 23 ..	Lizzie S. Jenks	Lots 24-25-26, Campbell & Underwood's add.	18000-1-17999	9 36
August 24	C. W. Coit	Lot 39, sub of 102, Coit & Curtis part plat	16733	3 53
August 24	Anna C. Zwingenberg	Lot 17-139 140 135, Underwood's add.	17681-17600-1-2	5 16
August 24	Geo. H. Kirtland	Lots 1 and 23, blk 1, Bear & Kirtland's add.	17747-49	4 72
August 24	L. Vander Stolpe	Lot 69, DeVries' add.	17786	2 03
August 26	Wm. H. Flemming	Lot 17, sub of 102, Coit & Curtis part plat	16733	8 66
August 26 ...	Nelson W. Northrop ..	Lot 53, Northrop's 4th add.	17465	6 46
August 26	W. E. and Mary Lamb ..	Lot 8, N. L. Avery's add.	17374	17 41
August 28	Mary A. Kendall	Lot 5, Block 14, Ellsworth add	16473	16 77

August 28	J. Bastiaanse	N. 92 ft. of lot 21, Briggs's sub	16950	5 51
August 28	Reuben Hatch	Lot 13, P. Tregent's sub	14279-18028-18134	79 90
August 28	R. Sproat and Wm. T. McGurra ..	Lot 8, blk 23, D. J. Deen's sub	16743	1 49
August 28	Annie M. Steinhart	Lot 4, blk 2, Stow & Parish add	17553	5 45
August 29	Frank Bailey	Lot 27, blk 3, Dunton's add	16551	1 40
August 29	Unlou Biblical Seminary	Lot 17, blk 2, Bear and Kirtland's add	17760	2 02
August 29	W. B. and T. F. Parkhurst	Lot 39, Hunter's sub	16997	4 45
August 29	Minerva Wilcox	Lot 67, Closterhouse sub	17301	9 25
August 29	Mary Brooks	S. ¼ of lot 16, DeCamp's sub	16612	9 86
August 29	Patrick H. Murray	{ Lot 2, blk 8, Converse & Telford's and S. ¼ of lot 3, Scribner's Jeff. St.	17150-17172	20 06
August 29	Chas. Baker	Lot 23, O. J. Merritt's add	17794	2 02
August 29	Pat. and Mary Lawlor	Lot 11, blk 8, Converse & Telford's	17151	16 05
August 30	Holl. Christ. Reformed Church ..	Lot 94, blk 3, Fisher's add .....	.....	†
August 31	Kate Stuart	Lots 68 and 69, Gunn's add	16994	5 06
August 31	Thos. and Ann Goggins	N. ¼ of lots 46-47, G. R. Homestead Ass'n sub	16304	31 96
August 31	Draper & Nugent	Lot 19, blk 3, Dunton's add	16550	1 40
August 31	John M. Sinzer	E. 32 ft. lot 9, blk 2, Converse plat	17133	3 45
August 31	Patrick McLaughlin	Part lot 12, blk 2, Gunnison sub	17160	5 13
September 7	Cora A. Camp	Lot 17 and 18, blk 3, Silver Creek Park	15674-5-17634-5	5 74
September 7	Teunis Speulstra	N. ¼ of lot 246, Leonard & Co.'s add	17008	3 32
September 7	Jno. E. More, Executor	Und ¼ of lot 351, Leonard & Co.'s add	15254-17011	4 09
September 7	Stanley Rybacki	S. 40 ft. lot 7, blk 96, D. J. Deen's sub	16611	2 37
September 7	H. W. Davis and wife	Lot 18, blk 10, Drew & Brown's	13163	4 17

*Free of cost.

†To correct error.

QUIT CLAIM DEEDS - Continued.

1899	To Whom Issued	Description of Property	No. of Certificate	Amount
September 7 ..	C. A. Phelps	Lot 70, Closterhouse sub.....	14544	\$ 1 76
September 7 ..	Sarah Stanton.....	Lot 11, blk 4, Hoogeboom's 24 add	16753	9 68
September 7 ..	Wm. Holcomb.....	Lots 14-15-21-22 23-24 45 46, Weston and Lowe's ..	17034-5-6-7-8-9-45-6	28 56
September 7 ..	Robert Sproul	Lot 1, D. C. Underwood's add.	17572	1 94
September 7 ..	Wm. T. McGurrin.....	Lot 18, blk 1, Barclay & Stevens.....	17190	2 90
September 9 ..	Dieuwerke Geelock	Lots 3 and 4 Vander Stolpe's add	17308	12 32
September 9 ..	Kate Johnson.....	Lot 6, blk 1, Wm. P. Innis' add.....	16623	6 22
September 9 ..	Peoples Savings Bank	Part of lot 73, G. R. Homestead Ass'n sub.....	17215	7 29
September 9 ..	Lyman W. Bacon.....	Lot 19, Reynold's & Franklin's sub.....	17517	2 04
September 9 ..	Agnes Metcalf	Lots 1-2-3, blk 5, Silver Creek Park.....	17537-8-9	3 12
September 12 ..	Fred A. Maynard.....	Lot 363, Kent plat	14651-16632	36 62
September 18 ..	F. Wittich	Lot 37, blk 9, W. C. Bradford's add.....	18128	9 08
September 18 ..	Minerva A. Denison	Lot 16, B. F. Barondsen's 2d add.....	16144-17742	6 33
September 18 ..	Peter Hartman.....	Lot 7, blk 3, Frallick's add.....	17945	6 45
September 18 ..	Mary A. Bouman	Lot 46, T. Stewart White's add.....	17804	3 02
September 18 ..	R. H. Smith Estate.	Lot 50 and 53, Namings, Oosting & Miesemas.....	17800-17801	7 08
September 26 ..	Schuyler Thompson.....	E. ¼ of lot 22, H. E. Thompson's add	17569	65
September 26 ..	Azlena Youell	Lot 5, blk 6, Comstock plat.....	16730	8 16
September 26 ..	W. H. VanLeeuwen.....	Lot 31, Boyd & Van Leeuwen's plat.....	18137	19 14
September 26 ..	Jan Wierenga	Part of sec. 5-6-11.....	17728	9 42
September 29 ..	Wm. J. Stuart.....	Lots 1-9 14-15-19 and part 13, blk 4, Stow & Parrish	17556 etc.....	10 65

September 29.	Jno. B. Coulson	Lots 18 and 19, blk 16, Oakdale Park.	17488 7	2 88
September 29.	Edwin C. Atrill.	Lots 4-24 to 46 and 51 to 73 incl., Morgan's add.	15776 etc.	55 24
October 4	Albert C. Hagar	N. 10 ft. of lot 18, blk 23, Converse re-platted.	17149	3 76
October 4.	Anna Coughlin	E. $\frac{1}{4}$ lots 15-16, blk 14, Oakdale Park add.	17484.	2 45
October 4	M. G. Clapp Estate.	Part of sec. 24-7-12	16301.	21 39
October 10.	Jas. A. Lombard	Lots 23-30, blk 2, Oakdale Park 2d add.	18299 0.	4 32
October 10	C. E. Balcom	Part lot 14, Godfrey's add.	11800-12731	7 39
October 10.	Decker & Jean	Part of sec. 18 7-11	16910	4 57
October 16.	Elizabeth Aae	Part lots 41-42, Verkerke's add.	18306-07.	4 35
October 18	Alfred O. Crozier	Lot 23, blk 1, lots 5-7, blk 4, A. O. Crozier's	15200 etc.	7 46
October 18.	Clara Van Arman.	Lots 2-3, blk 10, W. C. Bradford's add.	15036 etc.	81 06
October 18.	R. P. & O. C. Cary	Part of lot 2, A. Campau's sub	15907-17276.	3 32
October 20.	Otis H. Ryan	Part of lot 4, blk 4, Remington's.	16427 etc.	51 57
October 20	East St. M. E. Church	Lot 2, blk 26, D. J. Deen's add.	16610	1 43
October 24.	S. Richards and wife	S. 38 ft. of lot 18, Ives and Lutton's add.	17163-16115.	7 30
October 30.	Wm. H. Gilbert	Lots 12 13 14, blk 7, Oakdale Park add.	16239 etc.	89 16
October 30.	Joel Collins	Lot 5, blk 2, Colt & Co.'s add.	13319.	3 69
October 30.	Edith Mulliken	Lot 10, blk 6, C. & U. Windsor Park add	18010.	4 33
November 9	Anna Bissell	Lot 5, blk 2, W. C. Bradford's add.	16962.	4 58
November 9	Reuben Bloomer	E. 100 ft. lot 166, Bissell & Harlan's add.	17845.	28 60
November 9	Wm. M. Robinson	Lot 18, blk 11, Oakdale Park add.	17479	1 44
November 9	Petronella Kroeze	Lot 16, blk 1, A. O. Crozier's add	16916.	1 47
November 9	J. B. Ware	Part of lots 1 and 2, Centennial plat	17824	6 49
November 9	Sam'l Campbell	Lot 2, blk 6, Grove Park add.	18066.	17 33

QUIT CLAIM DEEDS—Continued.

1900	To Whom Issued	Description of Property	No. of Certificate	Amount
November 9 ..	Henry A. Wolff ..	Lot 7, blk. 10, C and U. Windsor Park add ..	18218-19002 ..	\$ 4 21
November 17 ..	Wm. C. Foote ..	Lot 31, W. C. Hopson's add ..	13185-15010 ..	10 80
November 17 ..	Emily E. Vander Heyden ..	Lots 1-2, blk 6, C. and U. Windsor Park add ..	18002-03 ..	7 60
November 17 ..	Sarah T. Turner ..	Lot 14, blk 10, W. C. Bradford's add ..	17880 ..	15 32
November 21 ..	Julia H. Sinclair ..	Lot 11 and 12, Peck & Veenboer's 2d add ..	17900-1 ..	6 99
November 21 ..	Frank C. Sharp ..	{ Lot 11, blk 1; lots 8, 9, 10, block 2; lot 11, Blk 3, C. & U. Replatted add ..	18166 etc.	18 45
November 21 ..	Elizabeth G. O'Neill ..	Part of lot 1, Dolbee's add ..	17322 ..	4 38
November 21 ..	G. J. and P. Brower ..	Part of 8-9, blk 4, Powers Paris add ..	18242 ..	1 99
November 29 ..	Chas. Resh and wife ..	Lot 1, blk 1, Atwater & Capens' add ..	17883 ..	28 60
November 29 ..	A. B. Knowlson ..	Lot 23, blk 4, C. & U. Windsor Park add ..	17908 ..	4 33
December 2 ..	Wilma Cole ..	Lot 3, blk 6, Oakdale Park ..	20038-18283 ..	4 39
December 2 ..	Isaac De Pagter ..	Part lot 21, blk 3, Merrill & Nin's add ..	16570 ..	2 37
December 2 ..	Mary Jary ..	Lot 30, Sunnyside add ..	18280-20287 ..	4 21
December 2 ..	P. W. Van Duzen ..	Lots 7-11, blk 1; lot 1, blk 6, Oakdale Park add ..	19388 9-02 ..	8 55
December 2 ..	Theo. I. Phelps ..	Lot 27, Allen McDowell's add ..	16765 ..	4 11
December 2 ..	J. B. Finkbeiner ..	Lot 23, blk 16, Oakdale Park add ..	14406 ..	3 80
December 2 ..	Jno. Yonell ..	Part lot 29, B. F. Washburn's Sub.	15527 ..	2 78
December 2 ..	Carrie M. Campau ..	Lot 3, Jenks-Drew-Nichols' add ..	17870 ..	2 07
December 2 ..	Martinus De Later ..	W ¼ lot 34, blk 3, H. H. Dennis sub ..	16583 ..	3 32
December 2 ..	E. R. Jackson ..	Lot 12, blk 4, Grove Park add ..	17364 ..	96
December 2 ..	Jno. J. Martin ..	Lots 13-13-14 Wurzburg's add ..	15600-17369 ..	2 02

December 2	C. W. Burrows and wife	Lots 25 26, blk 3, C. & U. Windsor Park	14400-61	17 44
December 12	Chas. S. Bullen	Lot 22, blk 1, H. H. Dennis' sub.	16027	4 30
December 12	Wm. Alden Smith	Lot 13, blk 1; lot 27, blk 4, Mills' add.	17221-22	66 08
December 12	N. W. Northrop	Lot 15, blk 1, N. W. Northrop's 3d add.	17048	4 58
December 12	Susan D. V. Powers	} Lot 10, blk 5, lot 4, blk 6 and lots 9-11-12-13-14, blk 9, Powers Paris add.	18244 etc.	35 14
December 13	Mary W. Barker	Lots 13 and 14, blk 6, Grove Park add.	19037-38-18000-70	7 50
December 12	Lydia P. Curtis	Lots 133-134, Estelle add.	18229-30	7 90
December 12	Herbert Gold	Lot 11 and 2 feet adjoining, Stevens & Pierce's add	17183	4 67
December 12	M. J. Smiley	Lot 4, blk 3, Silver Creek Park	17533	1 06
December 21	Geo. Chamberlain	Lot 26, blk 2, Oakdale Park 2d add.	18294-29040	4 21
December 21	Don H. Pennell	Part of lot 4, blk 29, Shephard's add.	17829-18880	73 56
December 21	M. M. Manley	Part of lots 6 7, blk 8, Powers Paris add.	18549 etc.	10 46
December 21	Chas. A. Taylor	Lot 21, blk 3, ex S. 36.4 ft. C. & U. Windsor Park	17291	54
December 21	Henry Andree	Part of lot 16, Innes & McReynold's add.	17003	3 08
December 21	Henry Curtis	} Lots 13 14, blk 4, and 7-8, blk 7, C. & U. Windsor Park add.	18178 etc.	16 84
December 21	A. M. and G. Heus	Part of lot 17, Innes & McReynold's add.	18021-18075	27 79
December 21	Jos. Houseman	Lot 30, blk 7, Davis, Turner & Carroll's, 8th ward.	18891	5 08
December 21	Jas. A. Lombard	W. 31½ ft. of lot 4, blk 6, Centennial Plat.	17336	7 09
December 27	C. M. Clary and C. Mullholland	Part of lot 23, Ellsworth ave., Kent Plat.	18140-20005	5 29
December 27	Mary W. Cotton	Lot 8, block 6, Powers' add.	13023	6 33
December 27	Standard Savings & Loan Ass'n.	Part of lot 41, Colt & Curtis Part Plat.	16005	10 94
December 27	W. D. Sargeant	Lot 7, J. Aldrich Smith's sub.	18131	15 49
December 28	Jas. Campbell	Lot 19, blk 4, C. & U. Windsor Park add.	15019	1 85
December 28	Pierce Kinsella	Lot 5, blk 6, Grove Park add.	19057-19036	4 34

QUIT CLAIM DEEDS - Continued.

1899	To Whom Issued	Description of Property	No. of Certificate	Amount
December 28	Pierce Kinsella.	Part of sec. 5 & 11.	18108-18699	\$ 225 75
December 28	Jennie C. Smith	Part of lots 11 and 12, Paddock's sub.	14143	2 05
December 29	Wm. Boersema	Part of sec. 29-7-11	7446	*
December 7	Rosannah Trego	Lot 38, H. P. Snyder's add.	17974	3 80
December 7	Theodore Lieske	Part of lots 12 13, blk 3, H. G. Stone's add.	17897-18801	7 68
December 7	Ass'n of Diocese of W. Michigan	Lot 10, blk 1, W. C. Bradford's add	13079	9 27
December 7	Seth S. Wills	Lot 1, Sunnyside add.	19999-20015	4 21
January 3	Wm. H. Farnham	Lot 11, Scribner's Jefferson St. add.	7101	71 90
January 3	Amos Hanlon	Lot 6, blk 5, Monroe's Re-sub.	7082	5 10
January 10	Dania Society of Grand Rapids	Lot 6, blk 18, Scribner & Turner's add.	17116	+
January 11	Arthur Jones	Part 5, blk 26, Shephard's add.	13806-14076	64 96
January 11	C. W. Calkins, Receiver	S 1/2 of lot 316, Kent Plat.	10683	10 32
January 18	M. Phelps Estate.	E 1/2 of s 75 feet of lot 1, Tryons' add.	17054	9 84
January 18	L. Luikaart	Lots 14 15, blk 4, White's add	17006	4 66
January 18	Brown & Sebler.	Lot 68, G. A. Wolf's add.	16906	2 54
January 18	Irving Woodworth	Lot 18, Washburn's add	13557	10 60
January 18	Samuel Carson	Lot 12, blk 8, Winsor add.	17638	3 84
January 25	Geo. W. Mitthofer.	Lot 1, Wheeler's add	18005-18393	3 65
January 25	Nellie E. Mills	Lot 59, White & Brooks Bros. sub.	18135	12 21
January 25	Elenore Lebstaki.	Lots 16 17, Sweet's sub	14215	3 84
January 25	Julia H. Sinclair	Parts of Sec. 1 & 12	17814	2 48

January 25	Julia H. Sinclair	Part of sec. 1 & 12	17613	4 49
January 29	F. J. Hubbard	Part of lot 38, blk 4, Tanner Taylor's add	18423	401 00
January 30	Jas. Durkee and wife	N ½ of lot 3, Easton's 2nd add	18906	7 12
January 30	Nelson Higbee	Lot 12, blk 1, Silver Creek Park	15065	1 85
January 30	A. Durfee & Co	Part of sec. 31-7-11	12015	2 00
January 30	Anna J. Loomis	Part of lot 1, Carr's sub	7182	6 22
January 31	D. Van Bruggen	Part of sec. 36-7-12	10009	10 90
January 31	Anna Slichterman	Part of sec. 29-7-11	13394	2 05
January 31	Hendrik Zimmerman	Part of sec. 31-7-11	10195	5 83
January 31	W. E. Stevenson	Part of sec. 33-7-11	18011	76 22
January 31	Benj. L. Scott and wife	Lot 5, blk 8, C. & U. Windsor Park add	18201	2 20
January 31	V. C. Milling Co	Part of sec. 24-7-12	7457	5 05
January 31	Jno. Youell	Part of sec. 39-7-11	18459	1 83
January 31	Chas. H. Hoyt	Part of sec. 31-7-11	16140	2 28
January 31	Tryntje Fletstra	Part of sec. 18-7-11	14911	8 82
February 8	Millard P. Hedges	Part of sec. 18-7-11	18855	25 07
February 10	A. M. Maris	Part of sec. 1 & 12	14022-17306	13 57
February 10	A. M. Maris	Part of sec. 1 & 12	17307	4 49
February 10	A. M. Maris	Part of sec. 1 & 12	17308	8 52
February 10	S. A. White and G. R. Judd	Part of sec. 36-7-12	10900	+
February 10	S. A. White and G. R. Judd	Part of sec. 36-7-12	10902	+
February 10	Geo. Roelofs	Part of lots 20-21, Brown & Clark's add	17006	13 31
February 10	Lizzie F. Hooker	Part of blks 4-7, A. L. Skinner's add	18364	117 79

*To correct error.

†Free of cost.

‡Without cost.

QUIT CLAIM DEEDS—Continued.

1900	To Whom Issued	Description of Property	No of Certificate	Amount
February 15	A. S. Fuller.	Lot 5, Peter Robert's add.	18462	\$ 19 53
February 21	Michael Hayes	Lot 4, blk 6, C. & U. Windsor Park add	14465-18004	11 34
February 24	M. H. Walker, Executor.	Lot 39, Bissell & Davis add.	9727	25 41
February 28	Peter R. Perrine	Lot 82, D. C. Underwoods add	18978	2 94
February 28	Catharine A. Roe	Part of sec. 31-7-11	17731	2 21
March 3	Jas. Campbell	Lot 15, blk 16, Oakdale Park add.	14404	3 36
March 7	Anthony Mohan	Lot 409, Leonard & Co.'s	8846 etc.	37 99
March 7	Peter F. Boone and wife	Lot 23, blk 2, Bear & Kirtland's add.	17751	*
March 7	L. N. Barr	Lot 12, blk 5, C. & U. Windsor Park add	18187	2 22
March 7	Henrietta C. Farmer	Part of sec. 31-7-11	17270	8 49
March 13	Harriet N. Baldwin	Lot 2, Knapp & Eichen's add	17894-18335	45 89
March 14	Winfield S. Anderson	Lot 18, Gildersleeve & Herrington's sub	17346	1 08
March 14	Levi S. Provin	Part of sec. 25-7-12	17144	15 13
March 15	Jas. W. Brown Estate	Part of sec. 5-6-11	18105	213 40
March 15	R. Wyrenga	Lot 16, blk 10, W. C. Bradford's add.	13143	9 84
March 20	W. S. Morris	Lot 21, blk 3 and 1-2, blk 9, C. & U. Windsor Park.	18176-18206-7	8 25
March 21	Mary P. Clark	Part of lots 30-31, Cumming & Ferry's.	17103	8 40
March 21	H. E. Hill	Lot 18, Closterhouse's sub.	17200	3 54
March 22	Bd. Regents of U. of M.	Lot 2, blk 4, Weston & Meigs	18483	17 30
March 22	B. F. Allen	S ¼ of lot 19, D. J. Dun's sub.	18310	5 94
March 22	Geo. H. Cowin	Lot 13 and w ¼ lot 15, blk 7, Drew & Browns	16742	3 12

March 27 ..	W. H. Van Leeuwen	Part of lot 25, C. C. Pettibone's add.	9123 ..	1 80
March 27 ..	C. M. Wilson	Part of lot 1, blk 1, Campau Plat.	1819 ..	4 32
March 27 ..	E. F. Hest	Part of Sec. 29-7-11	18008 ..	1 35
March 27 ..	S. C. Graves	Part of Sec. 18-7-11	18008 ..	3 18
March 29 ..	Margaret Schneiders	{ Part of lot 29, blk 3, Davis, Turner & Carrolls 8th ward	13093 ..	7 05
March 29 ..	Gertrude A. Gay	Part of lot 1, blk 4, Remington's add.	17248 ..	6 48
March 29 ..	Enos Page	Lot 6, Dupree's add	13265 ..	10 57
March 29 ..	Alloe Watson	Part of lot 12, blk 9, Drew & Brown's	13161 ..	10 82
March 30 ..	Catherine Braun	Part of lot 6, blk 11, Drew & Brown's	13165 ..	6 29
March 31 ..	Samuel Main	S ½ of lot 2, blk 1, Drew and Brown's	16735 ..	3 08
April 7 ..	P. H. O'Brien	Part of sec. 28-7-12	16413-19165 ..	52 98
April 7 ..	Laura E. Munshaw	Lots 13 13, blk 3, Oakdale Park add.	18434-5 ..	46 36
April 7 ..	D., G. H. & M. R'y Co.	Part of blk 7, Tanner Taylor's add.	16826 ..	3 11
April 7 ..	Jos. H. Terrell	Lots 7-8, blk 11, Oakdale Park add.	16822-3-18439-40 ..	85 98
April 7 ..	M. J. Kolts	Lot 51, Bissell & Harlan's add.	13251 etc ..	20 15
April 7 ..	Geo. A. Pollard	Part of lot 3, blk 1, Geo. Campau Plat.	9239 ..	•
April 10 ..	C. Junkerman Estate	Part of Sec. 29-7-11	12410-16507 ..	30 03
April 10 ..	Jno. Ringold	{ Lots 3-142, Underwood's, and lot 3, blk 6, C. & U. Windsor Park add	19068 etc ..	4 06
April 10 ..	Anna Collar	Lot 31, Robinson's Fair Ground	19013 ..	4 70
April 10 ..	Anna Koster	Part 6-7 Jefferson St., Scribner's add.	19157 ..	8 44
April 10 ..	Theda B. Culver	Part 10, blk 3, Ellsworth add	18838 ..	67 70
April 12 ..	Jos. Chilver	Part 2, block 3, Barths add	17924 ..	14 00
April 12 ..	Jeanette C. Wylie	Lot 2 and part of 4, Fisher's 2d add.	18616 ..	13 23

*To correct error.

QUIT CLAIM DEEDS—Continued.

1940	To Whom Issued	Description of Property	No. of Certificate	Amount
April 12.	Henry Hascher Estate	Lot 3, Gunnison Place	18613.	\$ 38 24
April 12.	Henders Antflink	Lot 22, blk 2, Barclay & Stevens	18622.	50 88
April 12.	H. B. Proctor	Lots 21-22, Lamb & Toren's E side add	18556-7.	5 54
April 12.	S. G. Paschall	Lot 53, Blaisell & Son's add	18727.	3 04
April 17.	B. F. Wallick	Lot 4, Gunnison Place	18514.	1 72
April 17.	N. W. Northrop	Part 9-10, Northrop's 4th add	19157.	3 88
April 17.	J. E. Darr	Lot 45, L. K. Bishop's add	14711-18580.	5 37
April 17.	Jno. McNaughton	Lot 21-25, Dutton's sub	18608-9.	2 18
April 17.	A. H. Schulling	Part 2-3, Celton's add	18672-3.	3 52
April 17.	Celia H Pennell	Lot 303, Kent Plat.	18697.	20 20
April 17.	C. F. Bacon	Lots 1 2-3, Reynolds & Franklin's 3d add	18565	1 21
April 19.	Anna Smilts	Part of lot 10, blk 6, Colt & Co.'s add	18667.	16 14
April 19.	Henry G. Cobb	Lot 19, Blissell & Harlan's add	18513.	6 21
April 19.	W. H. Benedict	Lot 39, Grove Park add	15731 etc	5 22
Total				\$ 4,727 97

Salaries of City Officers and Employees.

Mayor, per year	\$ 1,200 00
Mayor's secretary, per year.....	1,000 00
Aldermen (24), each per year.....	350 00
City Clerk, per year	2,500 00
Deputy City Clerk, per year	1,200 00
One clerk, per year	1,000 00
One clerk, per week	12 00
One clerk, per week.....	16 80
City Treasurer, per year	2,500 00
Deputy City Treasurer, per year.....	1,500 00
Bookkeeper (1) per year	1,500 00
Bookkeeper (1) per year	1,000 00
Clerks in tax department, per week.....	18 00
Comptroller, per year	2,000 00
Bookkeeper, per week.....	16 80
Assistant, per week	12 00
Assistant, per week	8 00
Tax Title and Abstract Clerk, per year	1,300 00
City Attorney, per year.....	2,500 00
Assistant City Attorney, per year.....	1,200 00
Law Clerk, per year.	1,000 00
Clerk, per week	15 00
City Marshal, per year.....	1,300 00
Deputy City Marshal, per week.....	18 00
Bookkeeper, per week	15 00
Assistant, per week	15 00
City Physician, per year	1,200 00

BOARD OF PUBLIC WORKS.

Five members, per day for actual service.....	\$ 3 00
Secretary of Board, per year	1,500 00
Assistant Secretary, per month	75 00
Cashier, per month.....	65 00
One assistant, per month	45 00
One assistant, per month	55 00
One assistant, per month	50 00
Chief Inspector, per year	1,000 00
City Engineer and Surveyor, per year.....	2,400 00
First assistant, per year.....	1,600 00
Second assistant, per year	1,300 00
Levelmen, per day	3 25
Rodmen, per day	2 25

BOARD OF POLICE AND FIRE COMMISSIONERS.

Secretary of Board, per year	\$ 1,200 00
Stenographer, per year	600 00

REPORT OF COMPTROLLER,

BOARD OF HEALTH.

Health Officer, per year	\$ 1,500 00
Secretary Board of Health, per year.....	900 00
Clerk, per week	12 00
Keeper hospital, per week	12 00
Inspectors, each per week	10 00

GARBAGE BURNER.

Two tenders, per week, each	\$ 12 00
Dump man, per week	7 50

BOARD OF ASSESSORS.

Three members, each per year	\$ 1,000 00
Chief clerk, per year	1,500 00
Second chief clerk, per year	1,100 00
Clerks, per month	75 00

BOARD OF CEMETERY COMMISSIONERS.

Three members, each per year.....	\$ 100 00
Secretary, per year	150 00
Sexton Valley City cemetery, per year.....	900 00
Sexton Greenwood cemetery, per year.....	800 00
Laborers, per day	\$1 25 to 1 75

BOARD OF POOR COMMISSIONERS.

One member, per year	\$ 1,000 00
One clerk, per week	18 50
One clerk, per week	10 00
One clerk, per week	12 00

HIGHWAY COMMISSIONERS.

Three Highway Commissioners, per week each.	\$ 16 50
Laborers, per day	1 75
Sewer men, per day	2 00
Teams and teamsters, per day	3 50

PARKS.

Superintendent of parks, per year	\$ 1,500 00
Foreman, per week	12 00
Laborers, per day	\$1 25 to 1 75

SUPERIOR COURT.

Judge (paid by the State)	\$ 2,500 00
Clerk, per year	1,200 00
Court Stenographer, per year	2,000 00
Messenger, per week	9 00
Court officer, per day	2 50

POLICE COURT.

Judge, per year.....\$	1,800 00	City's share.....\$	900 00
Clerk, per year.....	1,200 00	City's share.....	600 00
Bailiff, per year.....	800 00	City's share.....	400 00

JUSTICES' COURT.

Two Justices, each per year	\$ 1,200 00
Clerk, per year	1,000 00

CITY HALL.

Custodian, per week.....	\$ 7 00
Engineer, per week.....	18 00
Assistant Engineer, per week.....	15 00
Janitors, per week.....	12 00
Elevator man, per week.....	14 00
Night watch, per week.....	14 00

FIRE DEPARTMENT.

Marshal, per year.....\$	2,000 00
First assistant marshal, per year.....	1,200 00
Second assistant marshal, per year (also \$450 from police department).....	1,150 00
Driver for marshal, per day.....	1 55
Twelve captains, per day.....	2 50
Fourteen lieutenants, per day.....	2 10
Two drivers, per day.....	1 55
Sixteen drivers, per day.....	1 90
Two drivers, per day.....	1 80
Thirty-three pipemen, per day.....	55c to 2 00
Twenty-two laddermen, per day.....	\$1 55 to 2 00
Four engineers, per day.....	2 74
Four assistant engineers, per day.....	\$1 80 to 2 00
Assistant superintendent fire alarms, per day.....	2 75
Two signal operators, per month.....	50 00
One battery man, per day.....	1 75
One line man, per day.....	2 00

POLICE DEPARTMENT.

Superintendent, per year.....\$	2,300 00
Superintendent signal service, per year (also \$1,150 from fire department).....	450 00
Captain, per day.....	3 00
Lieutenant, per day.....	2 90
First sergeant, per day.....	2 75
Second sergeant, per day.....	2 50
Third sergeant, per day.....	2 30
For detectives, per day.....	2 74
Covt officer, per day.....	2 05
Trunt officer, per day.....	2 05
Four drivers, per day.....	2 05
Officer clerk, per day.....	1 80
Officer clerk, per day.....	1 70

Signal operator, per month.....	30 00
Three signal operators, per month.....	25 00
Janitor, per day.....	2 00
Assistant Janitor, per day.....	1 50
Poundmaster, per day.....	2 06
Assistant poundmaster, per month.....	35 00
Matron, per day.....	1 91
Fifty-six patrolmen, each per day.....	2 05
Fourteen patrolmen, each per day.....	1 91
Fourteen patrolmen, each per day.....	1 80

PUMPING STATION.

Two engineers, per month, each.....	83 33
One assistant engineer, per month.....	75 00
One fireman, per month.....	50 00
Three firemen, per month, each.....	45 00
One fireman, per month.....	40 00
Wiper, per month.....	40 00
Oilier, per month.....	40 00
Coal passers, per month, each.....	40 00

REPAIR DEPARTMENT.

Tapper, per day.....	9 50
Assistant tapper, per day.....	9 25
Assistant tapper, per day.....	8 00
Assistant tapper, per day.....	1 75
Laborers, per day, each.....	1 50
Street and sewer inspectors, per day.....	\$2 25 to 2 70

ELECTRIC LIGHT PLANT.

Superintendent, per year (also superintendent of pumping station).....	\$ 2,000 00
Electrician, per month.....	85 00
Engineer, per month.....	83 33
Assistant engineer, per month.....	70 00
Dynamo tender, per month.....	50 00
Dynamo tender, per month.....	47 00
Firemen, per month.....	45 00
Helpers, per month.....	44 00
Linemen, per month.....	66 00
Trimmers, per month.....	50 00

LEO. A. CARO,
City Comptroller.

REPORT OF CITY ATTORNEY.

OFFICE OF THE CITY ATTORNEY. }
GRAND RAPIDS, MICH., April 24, 1900. }

To the Honorable Mayor and Common Council:

GENTLEMEN—The current municipal year has been a very busy one for the legal department, and while we have not been successful in all of the city's litigation, I am much gratified with the measure of success which we have attained. At the beginning of the municipal year there were ten cases pending in courts of record in which the city was interested, one of them (the Monje suit for damages) being in the Supreme Court, and which was there affirmed. The judgment in the lower court in that case has been paid by the city, and pursuant to the direction of the Common Council, I have instituted a suit upon the bond of the contractor who made the excavation in the street by which Mrs. Monje received the injuries complained of, to recover the amount paid on the judgment in that case. No new principle was involved in the case, the city being held liable in the first instance.

In this connection I desire to urge the necessity of great care in the making of contracts for street improvements, to the end that the city may be adequately protected from loss in cases of this character. I expect that the contractor and his sureties will be charged with responsibility for this accident. The practice of contractors in leaving excavations without proper guard and warnings is a dangerous one and, in my opinion, this suit will lead to a realization by contractors that for negligence in that regard, they and not the city are ultimately liable.

Of the other eight cases, five have been tried, viz: Koster, Broffee, Dorris, et. al., Lemon, and Peck & Butterfield, respectively, against the city. In the Koster case (a suit to recover damages claimed to have been suffered by reason of an alleged defective sidewalk) there was a verdict of no cause of action. The case of Broffee against the city (also a sidewalk damage case) resulted in a verdict against the city, and steps are being taken for an appeal to the Supreme Court. This case has been pending since November 21, 1898, and the injuries complained of are alleged to have been sustained May 20, 1895. I have reason to believe that the judgment against the city in the case will be reversed by the Supreme Court. In view of the difficulties usually experienced in securing evidence in this class of cases, in behalf of the legal department, I wish to commend the aldermen and the City Marshal for their present activity in regard to the building of new walks, the necessity for which is not fully realized until a suit of this character is decided adversely to the city.

The case of Lemon against the city was to recover for injuries alleged to have been sustained by reason of a stone in a street. The verdict of the jury was no cause of action. In Norris, et. al., vs. city, being a suit to recover rent for rooms formerly occupied by the Justices' Courts, the jury failed to agree, and the cause has been settled by acceptance by the plaintiffs of the amount tendered by the city before the suit was commenced.

The case of Peck & Butterfield (being a chancery suit arising out of the assessment for the improvement of Butterworth avenue in 1894) was tried in the Superior Court, and a decree was made in favor of the city, sustaining the validity of the assessment. The complainants have appealed to the Supreme Court, where the case is still pending.

Of the suits pending at the commencement of my official term, four remain undecided, viz: Fitzpatrick vs. the city, being an action to recover for gravel alleged to have been taken from the plaintiff's premises on Hall street in 1890, which was commenced August 14, 1894; Ballard vs. Idema (a case appealed by the plaintiff from Justices' Court); Galvin vs. the city in the United States Court, in which the city is only nominally interested, and is amply protected against liability by bond, and Parsons against the city, a chancery suit growing out of the assessment for the improvement of Kalamazoo avenue.

During the current year I have commenced, under the direction of the Common Council, or been directed by the Common Council, to defend a total of nineteen cases in courts of record, not including criminal cases for violation of city ordinances. Out of the nineteen five have been tried, viz: Brown vs. Cemetery Commissioners; Schliess vs. City; suit to vacate alleys and lot lines in Antoine Campau Park; in re. petition of Frederick W. Goldsmith, to vacate an alley, and Ellis vs. City, the latter case was taken to the Supreme Court by the relator and judgment rendered in favor of the city, and while the opinion of that court is not all that was expected, the question of the employment of honorably discharged union soldiers in "public departments" is adjudicated by the highest Court in the State. The circumstances surrounding this case are too well known to need comment on my part, yet I wish to say in passing that in the part I personally took in the matter I was actuated only by what I considered the actual needs of my department. In the case of Brown vs. Cemetery Commissioners there was a verdict of no cause of action. The case in re. petition of Frederick W. Goldsmith, was a suit in Kent Circuit Court to vacate a portion of a public alley and the petition was denied with costs to the city.

The case of Schliess vs. the City was finished in the Superior Court today and judgment rendered against the city for \$1,828.01. Under the construction of the law, as given by the court to the jury in this case, it behooves the city in the future to use extra precaution in the selection of architects and inspectors for our public works. The instructions referred to, in effect, hold that notwithstanding the plain provisions of a contract taking days to prepare and after passing through all of the city machinery provided for in the charter, architects and inspectors may, by neglect of their duties, impose upon the city a liability for defective work which it was not intended to assume. The matter deserves the attention of the Board of Public Works. In the regular course of business I shall ask permission of the Common Council to appeal the case to the Supreme Court.

Of the cases started during the year seven are now pending. Three are cases wherein the city is plaintiff and in four the city is defendant.

In cases instituted for the violation of city ordinances we have been eminently successful. No ordinance has been held invalid by a court of last resort, while the validity of the transient tradesman ordinance was attacked in the Superior Court and held valid, as was also the present garbage ordinance, which latter was also held good by the Supreme Court.

So far during the present year we have cared for 1,256 cases in the Police Court. Of this large number eleven were nolle prossed and in only twelve were we unsuccessful in obtaining a conviction. No case is now pending in this court.

We have tried or otherwise disposed of in courts of record a total of twenty-four cases, and in all excepting

two the result has been in favor of the city. An appeal in each of these two cases is now pending.

During the past year my duties have brought me in close touch with the duties of the Committee on Claims and Accounts, perhaps more so than with any other committee, and I would hardly feel my full duty done without a word of commendation for the work of this committee. The claims presented for settlement have been varied in character and each claimant alleged some special reason for asking for compensation from the city, yet in the consideration of all these claims it must be admitted that the committee has been very successful, being both fair to claimants and zealous in the interests of the city. Excepting the Montje case (to recover which amount suit is now pending, and for which a judgment was rendered prior to my term of office), the city has not been required to pay a single judgment in a damage suit or street opening case, and in claims settled amicably it must be admitted that the city has paid less money this year than for many years past.

In conclusion, I beg to express to His Honor, the Mayor, to each member of the Common Council and to the officers and employes of the several departments my appreciation of the uniform courtesy and kindness extended to me in the administration of the affairs of the legal department. It must be remembered that our city is constantly becoming more advanced in the administration of its affairs and our methods of conducting our legal business must keep pace with the improvements made in the same lines of work by individuals and private corporations. I have asked for nothing that has not been freely granted by the Common Council or the department from which such favors have been requested and to no one man or department belongs the credit for

whatever may have been accomplished nor to no one man or department is to be charged whatever failures our critics may discover.

Finally, I wish to say that in the future I shall endeavor to merit even more than in the past that confidence and continuity of method and action which has enabled us to achieve the results obtained.

Respectfully submitted,

L. K. SALSURY,

City Attorney.

REPORT OF BOARD OF ASSESSORS.

OFFICE OF THE BOARD OF ASSESSORS, }
GRAND RAPIDS, MICH., April 24, 1900. }

*To the Honorable the Mayor and Common Council of the
City of Grand Rapids:*

GENTLEMEN—In accordance with the usual custom, we herewith submit our annual report, with a detailed statement of the business of our office for the year ending April 24, 1900.

The assessment rolls for the year 1899 were confirmed by your honorable body and returned to this office. We proceeded to prepare the city tax rolls and apportion thereon the city, sewer and highway taxes in accordance with the law. Upon the completion of said city tax rolls they were turned over to the Comptroller, as the charter provides.

The following table shows the apportionment by wards for the year 1899:

Wards	City	Sewer	Highway	Delinquent and Surplus	Total
First.....	\$ 28,121 00	\$ 544 00	\$ 5,000 00	\$ 18 79	\$ 33,683 79
Second..	95,100 00	2,341 00	5,000 00	260 14	102,701 14
Third.....	50,779 00	982 00	4,000 00	58 44	55,819 44
Fourth....	48,215 00	1,187 00	6,000 00	76 85	55,478 85
Fifth.	19,170 00	472 00	3,000 00	33 77	22,675 77
Sixth.....	15,851 00	414 00	3,000 00	28 74	19,293 74
Seventh...	15,608 00	407 00	2,500 00	59 03	18,574 03
Elighth....	11,906 00	311 00	2,000 00	5 46	14,222 46
Ninth.. ..	14,113 00	368 00	3,000 00	38 27	17,519 27
Tenth.....	21,656 00	418 00	3,000 00	10 51	25,084 51
Eleventh..	17,183 00	332 00	3,000 00	43 27	20,558 27
Twelfth...	11,569 00	234 00	2,500 00	106 07	14,399 07
Total. . .	\$ 349,271 00	\$ 8,000 00	\$ 42,000 00	\$ 739 34	\$ 400,010 34

The state, county and school tax rolls were prepared and the taxes apportioned to the several wards were spread according to law, and when completed, footed and balanced, were turned over to the City Treasurer for collection, which was on Dec. 1, 1899.

The following table shows the amount apportioned to each ward:

Ward	State	County	School	Total
First.....	\$ 9,548 50	\$ 4,068 92	\$ 12,231 21	\$ 35,848 63
Second.....	32,290 20	13,257 43	75,179 29	120,726 84
Third.....	17,241 70	6,913 63	40,140 14	64,295 47
Fourth.....	16,371 10	6,611 90	38,115 88	61,098 88
Fifth.	6,508 90	2,664 78	15,154 20	24,327 88
Sixth.....	5,382 20	2,149 20	12,531 02	20,062 42
Seventh.....	5,299 70	2,126 89	12,337 95	19,764 54
Eighth.....	4,042 70	1,586 74	9,412 60	15,042 04
Ninth.....	4,791 80	1,906 59	11,156 58	17,854 97
Tenth.....	7,352 90	2,865 23	17,119 42	27,337 55
Eleventh..	5,834 40	2,255 34	13,583 87	21,673 61
Twelfth.....	3,928 10	1,573 42	9,145 56	14,647 08
Total.....	\$ 118,592 20	\$ 47,960 07	\$ 276,107 64	\$ 442,659 91

The assessment rolls for the year 1900 have been completed and returned to your honorable body for review, as provided in Sec. 4, Title VIII of the charter.

The following table shows the assessments by wards for the year 1900:

Wards	Real Estate	Personal Estate	Total
First	\$ 23,198 20	\$ 11,912 50	\$ 35,110 70
Second	66,833 80	41,999 70	108,833 50
Third.....	35,588 20	20,843 89	56,432 09
Fourth.....	39,734 20	15,921 17	55,655 37
Fifth.....	17,084 20	4,355 25	21,389 45
Sixth.....	13,624 55	6,553 50	20,178 05
Seventh.....	13,481 95	5,113 49	18,595 44
Eighth.....	10,523 65	2,778 87	13,302 02
Ninth.....	11,554 65	5,960 80	17,524 95
Tenth.....	19,257 75	5,559 22	24,816 91
Eleventh.....	16,774 40	1,690 80	18,455 00
Twelfth.....	10,284 45	2,955 82	13,241 27
Total.....	\$ 277,900 00	\$ 125,634 81	\$ 403,534 81

In addition to this, gentlemen, we respectfully report the following local improvement assessment rolls made and completed during the year and returned to your honorable body, all of which were confirmed:

Asphalt Paving Rolls.

	Am't of Assessment
Jefferson Ave. from Wealthy Ave. to Fifth Ave.....	\$ 19,200 00
Ottawa St. from Lyon St. to E. Bridge St.....	7,900 00
Prospect St. from E. Fulton St. to Fountain St.....	6,900 00
Total.....	\$ 34,000 00

Brick Paving Rolls.

Campau St. from Louis St. to E. Fulton St.....	\$ 11,700 00
Ottawa St. from E. Bridge St. to Fairbanks St.....	17,300 00
Total	\$ 29,000 00

Macadam Paving Rolls.

S. College Ave. from E. Fulton St. to Cherry St.....	\$ 5,100 00
E. Fulton St. from Jefferson Ave. to Union St.....	11,400 00
Turner St. from Seventh St. to North St	23,500 00
Turner St. from W. Bridge St. to Seventh St.....	11,080 00
Total	\$ 51,080 00

Grade and Gravel Rolls.

Crawford St. from Madison Ave. to Valley City Cemetery.....	\$ 2,930 00
Crescent Ave. and Bostwick St. from Lyon St to Crescent Ave. and from Division St. to Bostwick St.....	4,000 00
Dickinson Ave. from Madison Ave. to Jefferson Ave.....	2,150 00
Elm Ave. from Madison Ave. to Jefferson Ave.....	3,920 00
Fair St. from Division St to Jefferson Ave.....	3,595 00
Fitzhugh St. from Lake Ave. to Hermitage St.....	2,880 00
Fuller St. (south) from Lake Ave. to Wealthy Ave.....	3,850 00
Grandville Ave. from Hall St. to Clyde Park Ave.....	10,500 00
Godfrey Ave. from G. R. & I. right of way to Market St.....	3,150 00
Halfly Place from Division St. to Jefferson Ave.....	2,420 00
Highland Ave. from Division St. to Central Ave.....	1,450 00
Home Ave. from Division St. to Jefferson Ave.....	3,650 00
LaBelle Ave. from Division St. to Ionia St.....	1,990 00
Marion St. from Butterworth Ave. to L. S. & M. S. R. R	2,090 00
Mills St. from Madison Ave. to College Ave.	3,810 00
Palmer Ave. from Wartrous Ave. to Canal St.....	10,000 00
Prince St. from Madison Ave. to S. Union St.....	4,800 00
Robey St. from Wealthy Ave. to its northern terminus.....	2,200 00
Rose St. from Division St. to Buchanan St.....	3,900 00
Steele Ave. from Hall St. to Stevens St.....	4,500 00
Stewart Ave. from Division St. to Buchanan St.....	4,000 00
Spencer Ave. (formerly Madison St) from Plainfield Ave. to North Ave.....	5,000 00
Tamarack St. from Walker Ave. to Twelfth St.....	3,600 00
Tenth St. from Alpine Ave. to Pine St	4,600 00
Travis Ave. from Wartrous Ave. to Canal St.....	7,600 00
Third Ave., north arm, from Third Ave. proper to Buchanan St.....	600 00
Thomas st. from Madison Ave. to S. Union St.....	4,100 00
Watson St. from Lane Ave. to John Ball Park.....	7,000 00
Total.....	\$ 114,285 00

Sewer Rolls.

Barker Place from First St. to Bridge St. Alley.....	\$ 350 00
Campau Street from Louis Street to E. Fulton Street.....	1,750 00
Chestnut Street from Grandville Avenue to Oakland Avenue.....	710 00
Colfax Street and Coit Avenue from Quimby Street to Queen Street.....	860 00
Diamond and Fisher Streets from Wealthy Avenue to Eureka Avenue	950 00
Ethel Avenue from Wealthy Avenue to Sherman Street.....	1,300 00
Fulton Street from Lafayette Street to Barclay Street.....	870 00
Grand Avenue and Lyon Street from Crescent Avenue to 50 feet east of Antisdel Court.....	870 00

Hamilton and Myrtle Streets from North Street to Myrtle Street, thence to Broadway Street.....	2,550 00
Halfley Place from Division Street to Cornwall Place.....	290 00
Ionis Street Alley from Trowbridge Street to Fairbanks St.	420 00
Marion Street from Chatham Street to Bridge Street	400 00
Marion Street from Butterworth Avenue to L. S. & M. S. R. R.....	330 00
Ottawa Street from Lyon Street to Bridge Street	1,120 00
Pine Street from Bridge Street to First Street.....	400 00
Robey Street from Wealthy Avenue to its northern terminus	400 00
Taylor, Center and other streets.	4,800 00
Travis Avenue from Colt Avenue to Wartous Avenue.....	500 00
Turner Street and Myrtle Street from Leonard Street to North Street and from Broadway Street to Turner Street ..	2,900 00
Twelfth Avenue from Ionis Street to Buchanan Street.....	620 00
Terrace Avenue from Logan Street to 300 feet north.	565 00
Total.....	\$ 23,005 00

Opening Rolls.

Bridge Street from Banks Street to dock line	\$ 1,692 51
Buckeye Street from Diamond Street to Calkins Avenue.....	1,000 00
Dolbee Street from Bates Street to 140.55 feet south of Bates Street.....	431 88
Sibley Street from West Side ditch to Valley Avenue.....	1,191 90
Total ..	\$ 4,306 29

Recapitulation.

Rolls	No.	Amount of Assessment
Asphalt paving.....	3	\$ 34,000 00
Brick paving.....	2	29,000 00
Macadam paving.....	4	51,680 00
Imp., grade and gravel.....	28	114,285 00
Sewer.....	21	23,005 00
Opening.....	4	4,306 29
Total.	69	\$ 256,276 29

The cost of making the local improvement assessment rolls for the year 1899 in this office was \$4,360 50.

Respectfully submitted,

FRED B. ALDRICH,

GEO. G. LAMB,

FRED SAUNDERS.

Board of Assessors.

REPORT OF CITY MARSHAL.

CITY MARSHAL'S OFFICE,
GRAND RAPIDS, MICH., April 24, 1900. }

To the Honorable Mayor and Common Council:

GENTLEMEN—I herewith submit the annual report of my office :

Number of Notices Served.

For rebuilding and repairing sidewalks.....	4,017
For obstruction and encroachments.....	138
For certified copies of resolution.....	105
For tree trimming.....	806
For removing sand from walks.....	207
For moving permits.....	35
For notices to abate nuisance in streets and alleys.....	49
Total	5,355
Complaints received by phone and attended to	3,074
Sidewalks built of tar concrete, 24,569 square feet at 4c.....	982 84
Approaches built of tar concrete, 21,449½ square feet at 4c.....	857 98
Filling for tar concrete approaches.....	4 82
Tar concrete approaches (recoated).....	16 01
Filling for tar concrete walks	88 10
Sidewalks built of stone concrete, 62 2-9 square yards at 65c	40 44
Sidewalks built of stone concrete, 1,094 square yards at 75c	820 50
Sidewalks built per contract.....	167 35
Approaches built of stone concrete, 2,032 7-10 square yards at 75c.....	1,524 19
Sidewalks repaired per contract.....	15 00
Building brick driveway per contract.....	45 00

Patrolling and Repairing.

Lumber on hand, April 24, 1899.....	2,607 ft.
Lumber bought during the year.....	82,660 ft.
Total... ..	85,267 ft.
Strips bought during the year.....	5,900 ft.
Strips used during the year.....	5,900 ft.
Lumber bought amount in money.....	\$ 1,155 10
Strips bought amount in money.....	182 50

Nails and hardware bought.....	166 72
Salaries of four patrolmen.....	1,603 53
Total	\$ 3,086 94
Lumber used for repairs.....	45,779 ft.
Lumber used for approaches.....	36,992 ft.
Total	83,071 ft.

Amount Collected by Me from All Sources.

For sidewalk nuisance and water services roll.	\$ 138 98
For sale of lamps and post.....	18 30
For testing scales.....	4 00
Total	\$ 161 18

For Delivering and Putting up Booths for Spring Caucuses.

For delivering booths.....	\$ 5 25
For putting up booths.....	16 63
Total.....	\$ 21 88

For Repairing, Delivering and Putting Up Booths for Spring Election.

For repairing booths.....	\$ 12 25
For putting up and taking down booths.....	66 62
For delivering and bringing back booths.....	19 75
For lumber used for booths, 333 feet fin. strips.....	8 33
For screws, hinges, etc.....	7 30
For two (2) dozen lamp chimneys.....	9 00
For 30 gallons palacine oil at 14c.....	4 20
For rent for chairs, tables and stoves.....	30 00
For 10½ cords of block wood at \$2.20.....	23 10
Total.....	\$ 173 45

Salaries and Expenses.

Marshal one (1) year.....	\$ 1,300 00
Marshal's deputy, one (1) year.....	296 00
Marshal's assistant, one (1) year, 3 weeks at \$12 and 49 weeks at \$15.....	771 00
Marshal's clerk, one (1) year, 45 5-6 weeks at \$12.....	583 00
Horse feed.....	180 00
Postage.....	12 00
Total.....	\$ 3,787 00

Yours respectfully,

THOMAS J. GLEASON,

City Marshal.

ANNUAL REPORT
OF THE
BOARD OF
..POOR COMMISSIONERS..
TO THE COMMON COUNCIL
OF THE
CITY OF GRAND RAPIDS
FOR THE
FISCAL YEAR ENDING APRIL 20, 1900.

GRAND RAPIDS, MICH.:
West Michigan Printing Company.
1900.



ANNUAL REPORT

OF THE

Board of Poor Commissioners.

OFFICE OF BOARD OF POOR COMMISSIONERS, }
GRAND RAPIDS, MICH., April 20, 1900. }

To the Honorable, the Mayor and Common Council :

GENTLEMEN—We have the honor of submitting this, the annual report of the Board of Poor Commissioners.

We have continued along the line of our predecessors, rendering assistance to those whom we have considered needy. We have on file the history of all people assisted by us, which we trust will be of great benefit to our successors.

During the year we had the sad misfortune of losing one of our members, the late Rev. F.W. N. Hugenholtz, whom we have missed very much.

Drugs.

Instead of purchasing drugs of one firm as before, this year we have had contracts with six druggists in different parts of the city. The advantage of this plan is readily seen, as the majority of poor people live in the outskirts, and the convenience to them is considerable, since very often the medicine is wanted at once.

The cost of medicines and liquors compares favor-

ably with last year, as you will notice by the City Physician's report that the number of patients visited is greatly increased. We have purchased all our liquors direct from the wholesale liquor houses. This method works advantageously to us, both in regard to quality and measure.

Wood.

At the expiration of wood contracts, July 18, 1899, we contracted with a local concern for two thousand cords of 16-inch beech and maple wood at one dollar and fifty cents (\$1.50) per cord. In the deal we secured the use of a strip of ground large enough for the storage of said wood free of charge for one year. The cost of unloading and delivering wood has been thirty-five cents (35c) per cord, and we were put to a trifling expense in fitting our yard for use. The quality of wood was first class, and we know that people got full measure.

Nursing.

The excess in this item is accounted for by the unusually large number of typhoid fever cases treated in their homes by Dr. Burkart. In most cases a nurse was required, and the expense of such nursing was often ten to fifteen dollars per week for three or four weeks at a time. The hospital expense is less accordingly.

Burials.

We renewed the contract for the burial of the city charges with W. S. Stoughton. This is the third year Mr. Stoughton has had the contract and we have no fault to find with him. The cost is on a basis of \$12.75 for adults. This includes embalming and preparing the body, a rosewood coffin, a planed box, a covered burial wagon and one carriage, also a chance for religious service.

The amount expended by this commission for the year ending April 18, 1900, is \$15,380.24. The city has maintained in the County Home 109 persons for a total of 2,797 4.7 weeks at \$1.384 per week; amount for the year ending April 18, 1900, \$3,871.84.

Amount paid for the support of indigent persons who are residents of this city :

Expended by this commission, .. \$15,380 24

Expended by County Home.... 3,871 84

\$19,252 08

The cost of insane and imbeciles to this county for the year amounts to \$8,140.86, of which the city pays 67 per cent. as equalized by the Board of Supervisors.

The difference between the reports of the disbursing office and storekeeper is accounted for by the fact that the storekeeper enters purchases in his books when bought, and the disbursing officer enters same when bills are allowed by the board.

We append the reports of City Physician, disbursing officer and storekeeper, all of which is respectfully submitted.

HERMAN H. IDEMA,

A. J. KILLEAN,

Board of Poor Commissioners.

MRS. MINA H. ANDERSON,

Secretary.

CITY PHYSICIAN'S REPORT.

GRAND RAPIDS, MICH., April 19, 1900.

To the Honorable Board of Poor Commissioners:

GENTLEMEN—I herewith submit my annual report of the office of City Physician for the term ending April 18, 1900.

Total number of patients treated during the year..	1534
Number of office consultations.....	1312
Number of visits made.....	2381

Visits per Month.

April 18 to May 1, 1899.....	107
May.....	251
June	157
July.....	135
August	177
September	171
October	141
November	172
December.....	172
January, 1900.....	333
February	228
March ..	231
April 1 to 18	117
Total.....	<u>2381</u>

Diseases.

Pneumonia .	11
Specific diseases.....	35
Measles	23

Diphtheria	7
Disorders of digestive system.....	137
Rheumatism	39
Cancer	5
Tetanus	2
Epilepsy.....	3
Whooping cough.....	9
Erysipelas (facial).....	3
Varicose veins of leg.....	5
Common corryza	371
Consumption.....	88
Bronchitis.....	63
Typhoid fever.....	57
Accouchements.....	5
Amputations (various).....	9
Dislocations (various).....	4
Fractures (various).....	13
Heart, disease of	9
Eczema	11
Puerperal fever.....	7
Vertigo.....	1
Tonsilitis.....	17
Bright's disease.....	4
Pernicious anemia.....	1
Malarial fever.....	71
La Grippe	431
Unclassified.....	81
Insane cases	3
Births.....	5
Deaths	29

Cause of Death.

Consumption.....	8
Bronchitis.....	2
Heart, valvular disease of.....	4

Pernicious anemia.....	1
Mal nutrition (infant).....	1
Tetanus	2
Meningitis, basilar.....	2
Uraemic poisoning.....	2
Typhoid fever.....	2
Alcoholism.....	1
Hepatitis.....	1
Cholera infantum.....	1
Strangulated hernia	1
Peritonitis	1
Total.....	29

Number of Patients Sent to Hospitals.

U. B. A. hospital.....	19
Butterworth hospital	36
St. Mary's hospital.....	23
Woman's Home and Hospital.....	8
Total.....	86

Inventory of Dispensary.

Stock on hand per report of April 18, 1899.....	\$ 74 43
Drugs, surgical dressings, liquors, etc , as per disbursing officer's report.....	705 36
Total.....	\$779 79
Stock on hand April 18, 1900	97 53
Total.....	\$682 26
From this sum there should be deducted \$111.15, this amount being bills allowed after the close of the fiscal year of 1899	\$111 15
Total expense of my department for year ending April 18, 1900.....	\$571 11

The increase in number of consumptives under treatment requiring continuous medication, the pre-

valence of typhoid fever demanding professional attention, medication and nursing, a number of serious surgical cases requiring operation and after treatment, necessarily increased the expenses.

I desire to call your attention to the great increase in number of visits and office consultations; never in the history of this department has so much professional attendance been required; in fact my entire time has been occupied during the last four months.

I call your attention to the item, "Board, care and nursing," which seems excessive and demonstrates that placing of patients in the hospitals is the cheapest for the city, and best for the patient. A nurse costs from seven to fifteen dollars per week and board. The hospital charges \$7.00 per week for what costs us \$7.00 to \$15.00.

The increase in the number of consumptives has led me to make some investigation relative to the prevalence of this fell destroyer, and it may be a surprise to you when I say that in all countries consumption kills more people than any other disease. Michigan is no exception, and our own city could furnish alarming statistics. According to the last census of the U. S. (1890) out of 872,944 deaths, consumption caused 102,199. An increase of 37 cases is noted in this year's report.

In every country in Europe except one consumption kills more people than any other disease. The one exception is England, where out of 10,000 deaths 1,100 are caused by consumption and 1,150 from bronchitis. In France consumption kills 25 per cent. more people than any other disease, and, excepting pneumonia and typhoid fever, nearly 60 per cent. more than any other. In Germany out of 10,000 deaths 1,270 are caused by consumption, while the next highest is typhoid fever

with 450. In Russia out of 10,000 deaths consumption causes 1,960.

According to the last census in the United States, out of 872,944 deaths for 1890 consumption caused 102,199, or 25 per cent. more than pneumonia, which comes next with 76,496. In Michigan, in 1898, 2,826 deaths were reported from tuberculosis.

No statistics of war have such awful meaning as these frightful figures. For years consumption has killed more people than all the conflicts of nations, more than any of the pestilences, more than any of the diseases which attack and destroy human life. And it was not until the present generation began that any doctor dared to assert that consumption could be cured.

Certainly, in the last half of the century, no profession has made such magnificent strides, such splendid discoveries, or exhibited such skill, self-sacrifice and persistence as the physicians.

Dr. Alfred Meyer of New York, in a recent article in the Medical Record, gives a most interesting account of a sanitarium established by the State of Massachusetts for the cure of consumptives. In 1895 the legislature appointed a board of five trustees and appropriated \$150,000. A site was chosen at Rutland, 1,160 feet above the sea, and sheltered by a hill 100 feet higher. The hospital grounds included 200 acres of land. The institution was opened in 1898. In the first six months of its existence there was 224 patients, a very large number of whom were improved by an average stay of four months only. At present there are between 175 and 250 patients, male and female. These patients, or the counties sending them, pay \$5.00 per week. They live on outdoor life in the higher altitude, build their winter camps, and manage to have a pretty good time.

The temperature of the wards where they sleep indoors is seldom above 45 degrees Fahrenheit all winter; according to Dr. Meyer, the consumptive under these circumstances has from 25 to 35 more chances of getting well than he would have had. The State of New York is now endeavoring to get an appropriation to build a similar institution in the Adirondacks. I predict there will come a time when the states will have their hospital for consumptives, just as they do their asylums for the insane and with results that will be an enormous gain in public health. But private philanthropy is doing even more while the states refuse to act. In nearly every country of Europe there are institutions of this kind for the rich and the poor, especially in Germany and France, and they are very rapidly increasing. Japan was one of the first to establish such an enterprise, and it was under the patronage of the empress. An Italian countess has recently given to the Italian Hygienic Society all her wealth for a sanitarium for consumptives. In nearly every city of this country there are movements on hand, and in most of them the homes are already in operation. Why should this city, which ranks second to none in the spirit of enterprise, not join in the procession of the progress of modern science? Certainly there could be no nobler way in which the public spirit and generosity of the people could be shown, for it saves human despair, makes life better, brighter and happier, and becomes a source of truest economy in the real wealth and welfare of the world.

JOHN L. BURKART.

City Physician.

DISBURSING OFFICER'S REPORT.

GRAND RAPIDS, April 19. 1900.

To the Honorable Board of Poor Commissioners:

GENTLEMEN—The following families and persons have been aided during the year.

NATIONALITIES	FAMILIES	PERSONS
Indian.....	1	1
Jewish.....	1	2
Italian.....	1	6
Swedish.....	1	3
Danish.....	2	4
French.....	3	12
English.....	6	16
Colored.....	12	42
Polish.....	14	57
German.....	24	105
Irish.....	28	92
American.....	120	430
Holland.....	125	542
	337	1,312

Persons admitted to Kent County Home during the year:

Polish.....	1
Scotch.....	1
Norwegian.....	1
Dane.....	1
Canadian.....	1
German.....	2
Colored.....	2

Swede	2
French	2
English.....	3
Irish.....	15
Holland	18
American	31
	<hr/>
	80

Persons in the County Home at present:

French	1
Canadian.....	1
Colored.....	1
Swede.....	2
English	2
Irish	10
Holland	16
American	20
	<hr/>
	53

Died at the County Home during the year..... 8

There are at the present time fourteen persons in the Holland U. B. A. Home, who are city charges.

Their care there was formerly arranged for by the Director of the Poor, and they have been allowed to remain undisturbed during our administration.

Statement of Amount Disbursed for Year Ending April 18, 1900.

Burials.....	\$	214	30
Books and printing		67	97
Car fare.....		72	00
Cemetery Commissioners.....		73	00
Clothing and dry goods.....		18	60
Drugs.....		705	36
Fresh meat.....		34	90
Hospitals		1,672	01

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Homes.....	1,457 37
Milk.....	43 60
Miscellaneous.....	136 83
Merchandise for supply store...	1,997 99
Nursing....	328 32
Office supplies....	6 50
Shoes.....	193 15
Salaries....	4,475 47
Transportation.....	162 95
Wood.....	3,866 74

\$15,527 05

Cash received and turned over to City Treasurer:

Reimbursed on accoun't transportation.....	\$ 15 20
Reimbursed on acc't hospitals ..	72 00
Reimbursed on acc't burials....	10 50
Reimbursed by sale of empty barrels, stone, etc.....	39 32
Reimbursed by semi-annual report to County Sup'ts.....	9 80

146 82

\$15,380 24

Respectfully submitted,

LEONARD DEPAGTER,

Disbursing Officer.

STOREKEEPER'S REPORT.

GRAND RAPIDS, MICH., April 19, 1900.

To the Honorable Board of Poor Commissioners:

GENTLEMEN—The following is the annual report of the supply store in the care of the Board of Poor Commissioners:

Stock on Hand April 18, 1899.

487½ lbs. flour.....	\$	8	10
173 lbs. beans.....		3	60
275 lbs. pork.....		14	44
2 lbs. barley.....			05
2 lbs. coffee.....			24
68 lbs. tea.....		19	72
300 lbs. sugar.....		13	92
225 lbs. salt.....			64
392 lbs. soap.....		9	02
25 gallons kerosene.....		1	63
6½ cases matches.....		6	50
20 gallons syrup.....		3	20
35 lbs. rice.....		1	75
	\$	82	81

Stock Purchased for the Year Ending April 18, 1900.

23 tons flour.....	\$	761	50
50 bushels 23 lbs. beans.....		64	53
27 bbls. pork.....		311	50
1,450 lbs. coffee.....		174	00
397 lbs. tea.....		114	19

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4,895 lbs. sugar.....	230 08
2,240 lbs. salt.....	6 80
135 gallons kerosene.....	8 78
9 gross matches.....	9 90
30 boxes soap.....	75 50
825 lbs. barley.....	17 35
279 gallons syrup.....	46 32
3,212 lbs. rice.....	144 52
	<hr/>
	\$ 1,964 97
Less cash discount.....	8 03
	<hr/>
	\$ 1,956 94
Cost of merchandise on hand April 18, 1899..	\$ 82 81
Merchandise purchased for the year ending	
April, 19, 1900.....	1,956 94
	<hr/>
	\$ 2,039 75
Merchandise on hand April 18, 1900.....	105 19
	<hr/>
Net cost of supplies disbursed for the year	
ending April 18, 1900.....	\$ 1,934 56
Cost of paper sacks and paper on hand April	
18, 1899.....	10 24
Cost of paper sacks and paper purchased for	
the year ending April 18, 1900.....	13 49
	<hr/>
	\$ 23 73
Paper sacks and paper on hand April 18, 1900	9 50
	<hr/>
Net cost of paper sacks and paper used for	
the year ending April 18, 1900.....	\$ 14 23

List and Cost of Fixtures Purchased for the Year
Ending April 18, 1900.

Brace and bit.....	\$ 1 00
Paper holder.....	1 00
	<hr/>
	\$ 2 00

Net cost of supplies disbursed for the year ending April 18, 1900.....	\$ 1,934 56
Net cost of paper sacks and paper for the year	14 23
Net cost of fixtures purchased for the year..	2 00

Total cost of operating the store department for the year ending April 18, 1900.....	\$ 1,950 79
Total number of orders filled at the supply store,	2,301.

Cash sales of boxes, barrels, etc., for the year for which I have Treasurer's receipts, \$11.35.

Supplies on Hand for the Year Ending April 18, 1900.

2,475 lbs. flour.....	\$ 41 06
128 lbs. pork.....	8 38
18½ lbs. coffee.....	2 23
259 lbs. sugar.....	12 79
227 lbs salt.....	84
240 bars soap.....	9 24
4½ gallons kerosene.....	28
778 boxes matches.....	7 14
8½ gallons syrup.....	1 40
416 lbs. rice.....	21 84

Total.....	\$ 105 19
Paper sacks and paper on hand.....	9 50

Amount of goods disbursed from April 18, 1899, to April 18, 1900: flour, 44,012½ lbs.; beans, 3,215 lbs.; barley, 842 lbs.; meat, 5,547 lbs.; coffee, 1,433½ lbs.; tea, 469¾ lbs.; sugar, 4,036 lbs.; salt, 2,238 lbs.; soap, 3,152 lbs.; kerosene, 623 quarts; matches, 1,454 boxes; rice, 2,831 lbs.; syrup, 1,161 quarts.

Salable Stock in Care of Supply Store.

16 grain bags (old).....	\$ 80
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3 sugar barrels.....	30
10 pork barrels.....	2 50
35 lbs. tea lead.....	88
30 soap boxes.....	1 50
Total.....	\$ 5 98

List and Cost of Fixtures in Care of Supply Store.

1 tea can.....	\$ 75
2 scoops.....	50
6 barrel covers	88
2 hatchets.....	50
4 scoops.....	25
1 quart measure.....	05
4 tin funnels	10
1 pork hook.....	25
1 one-quart measure and funnel.....	25
1 butcher knife.....	40
2 peck measures, sheet iron.....	50
1 potato scoop.....	1 25
1 sharpening steel.....	25
1 fruit augur.....	75
1 augur.....	25
10 buck saws.....	5 00
1 set Trommer scales, No. 3.....	14 90
1 self-measuring syrup pump.....	4 00
4 stone hammers.....	2 74
1 meat scale.....	5 00
1 platform scale.....	10 00
1 saw vise.....	45
1 saw set.....	15
1 set counter scales (small).....	
1 syrup truck (old).....	
1 meat cleaver.....	

1 oil tank (old)	
5 100-lb. coffee bins (B. B. P. Co.).....	
1 brace and bit.....	1 00
1 paper cutter.....	1 00
Total.....	\$ 51 17

Respectfully submitted,
JOHN KREMERS,
Storekeeper.

ANNUAL REPORT

1899-1900

BOARD OF HEALTH

CITY OF GRAND RAPIDS.

BOARD OF HEALTH:

J. ORTON EDIE, M. D., *President of the Board.*

CHAS. W. CALKINS, MALCOLM C. SINCLAIR, M. D.

HON. GEO. R. PERRY, *Mayor,*

CLARK E. SLOCUM, *President of Council.*

R. M. LUTON, M. D., *Health Officer.*

W. A. WILSON, M. D., *Secretary.*

GRAND RAPIDS, MICH.:
West Michigan Printing Company.

1900.



ANNUAL REPORT
OF THE
BOARD OF HEALTH
FOR THE YEAR 1899-1900.

To the Honorable Mayor and Common Council:

GENTLEMEN—Looking back upon the days that are gone, we find that another year has passed, and that all the acts of the Board of Health, be they good or evil, have gone into history with it, and as we realize this fact we are reminded of the duty incumbent upon us, to render unto your honorable body an account of our stewardship as belonging to this important branch of the municipal government of our city.

We desire to particularly call the attention of your honorable body to the sanitary condition of the city, as we believe sanitary conditions to be the foundation on which we must build, and unless the foundation be well laid the superstructure will always be faulty.

Early in the season we commenced our house to house inspection, and continued it until every house in the city had been visited, and we are pleased to state that we find the people generally ready and willing to comply with all reasonable requirements, and in consequence our city is and has been in most excellent sanitary condition—at times we are obliged to reinspect and serve a second order for necessary cleaning up, but such second order is the exception, and not the rule.

We therefore believe the house to house inspections we are making each year to be educating the people to the necessity of doing this work, and it is also instructing them in the best methods of performing it, not only that we may get the results, but to do it at the proper time, but in the best and cheapest manner.

The collection and disposal of garbage and refuse is one that in the past has given us much trouble, but that source of trouble now seems in fair way of settlement, for the garbage ordinance passed about two years ago, and which has been contested in the courts, has been settled by a decision of the Supreme Court, handed down a few days ago sustaining the ordinance, and putting its enforcement by the department beyond question.

We have no trouble with the disposal as the crematory built about a year ago seems equal to any amount we will be likely to have for many years, and will readily dispose of all combustible matter of whatever nature without producing a nuisance or unsanitary conditions in any way. Thus with the collection ordinance settled by the decision of the Supreme Court, and the disposal settled by the excellent work done by the crematory, we feel that the garbage question is permanently settled, and we hope and believe the refuse question will follow.

Sewers.

There is in this city nearly three hundred miles of streets, and about one hundred and twenty miles of sewers, thus leaving a large territory entirely unprovided with this most necessary means of sanitation, and this unprovided district must depend on the old privy vault and cesspool. We believe persistent effort should be continued to provide every section of the city with sewers, and then to require all to connect with them, and in

considering sewer connection, we desire to call your attention to the large number of "dry sewers" now in use. These dry sewers from a sanitary point, are much worse than the privy vault or cess pool, for the reason that they form direct ventilators for the escape of sewer gas, and they cannot be cleaned out as readily as the privy vault or cess pool. We would respectfully recommend the passage of an ordinance prohibiting the construction of lateral sewers without the necessary water connection for flushing, and in those districts where of necessity the privy vault or cesspool must be used, we would respectfully recommend the passage of an ordinance authorizing the Board of Health to supervise their location and construction, and providing also, that no such vault or cesspool shall be constructed or maintained without permission of said Board.

Contagious Diseases.

During the year we have had a slight increase of the serious contagious diseases, but they have been milder in form than in previous years, as is shown by a lower death rate for each disease.

Diphtheria.

In the last quarter of the year we had of diphtheria, in October, 17 cases; November, 31 cases, and in December 17 cases, making more than 50 per cent. of the total for the year.

This disease has appeared in all parts of the city, and with the most careful investigation we are unable to trace a connection of infection, it appearing more as a sporadic affection than as communicated from one to another, and it appears also in that period of the year when the climatic changes are greatest—February,

March and April giving the next greatest number, and we have for those months, February, 14 cases; March, 12 cases, and April, 12. Bacteriological examination has been made in many of these cases and the quarantine placed on the result of said examination. We believe quarantine should be placed on clinical evidence in this disease, for the reason that to make the examination requires not less than eight hours, and the malignancy of the disease when it appears in epidemic form renders time very important, and it gives the public the benefit of protection from the earliest period, and would only inconvenience the individual family for a few hours should the bacteriological examination reveal the fact that it was not true diphtheria.

The use of antitoxin has been quite large during the year, and with the most gratifying results, many of the older physicians using it for the first time, and in nearly every case they are very enthusiastic in its praise.

Membraneous Croup.

We have had during the year 53 cases of membraneous croup, with 29 deaths. Very many of the most prominent pathologists of the present time are considering this as true diphtheria, and a bacteriological examination of many of the cases reported to us have shown the true Kloebs Loeffler bacilli, indicating that those cases at least might be classed as true diphtheria.

We believe these cases should be reported and quarantined as diphtheria, the confusion of terms misleading the people, and in some cases exposing them to the deadly infection of that disease when they thought the case was one of "only membraneous croup," and in their anxiety to assist an afflicted family they have carried sickness and perhaps death to their own homes.

Typhoid Fever.

Of this disease we have also had an increased number, but it has shown a decreased death rate. There were 185 cases regularly reported to us, with 14 deaths, and 17 deaths from this disease not brought to our knowledge until reported by death certificate, making a total of 202 cases, with 31 deaths.

This disease as it appeared among us has had none of the endemic or epidemic character, but more of the sporadic form, it appearing in all parts of the city and under all conditions and circumstances—a careful investigation showing no evidence of specific poison—and in but one instance where several cases might be traced to a common “center of infection”—at 333 North Ionia street and in neighboring houses there were several cases, and it was thought a well on that place might be the source of the disease. A bacteriological examination of the water was made, which did not reveal the typhoid poison, but did show that the well was foul—contaminated by surface drainage. The well was closed, the cases recovered and we have had no further trouble from that source. All other cases showed sporadic origin. Nearly all were in those families that depend on wells as a source of water supply, and an examination of the water of several of the wells has given no evidence of typhoid poison, but in nearly every case shows the contamination of surface drainage. Very many of these cases have more the appearance of severe malarial fever than that of the true enteric, and we believe it may be largely controlled by proper sanitary precautions, and we urge the people to give more attention to the cleaning up and disposing of all decaying animal and vegetable matter that usually accumulates in back yards, and also fill up all low places where water collects and becomes stagnant.

Scarlet Fever.

Scarlet fever has also shown an increased number of cases, but they have been of a very mild type generally, but as this disease sometimes becomes grave and formidable too much cannot be said on the subject of visiting cases of eruptive disease until a positive diagnosis has been made for this disease in its mildest form may have more the appearance of one of the milder exanthematous diseases and yet may communicate the disease in its most deadly type to the families of those visiting it. We therefore deem it our duty to warn all against visiting those having eruptive diseases and to insist that such visiting is not only a violation of law, but often exposes them and their families to grave dangers.

Measles.

We seem to have a very prolific soil for the production of this disease, for it is usually with us, sometimes increasing, again decreasing. In May and June of this year we had quite a large number of cases, and in November the disease again started up and has had an unprecedented run. There is no possibility of tracing the disease to a common origin, except to say that the whole city and a large part of the surrounding country is the center of infection.

The disease has, however, been very mild in form and in many cases so mild as to create a doubt of it being the true "red measles," many times the eruption appearing and disappearing the same day and the patient returning to good health and spirits.

We believe, however, that the same precautions in regard to visiting this disease, should be insisted upon that were recommended for scarlet fever, for in the

milder form the diseases have so much in common that one may carry away the infection of the severer disease when they thought they were visiting "only a case of measles," and thus carry disease, suffering and perhaps death to their own families or to the families of their friends.

Consumption.

We regret to be obliged to say that the practice of reporting this as a communicable disease is making progress very slowly. We establish strict quarantine against smallpox, with guards stationed to watch the infected houses, and we tremble with fear at the mere mention of the eastern oriental enemy, the cholera, the bubonic plague has spread death and misery through many of the eastern countries in the past few years, and yet the deaths from all these would have to be multiplied many times to reach the total left in the wake of the terrible march of this "great white plague."

We have the authority of the most profound students of this or any age of the world's history, beginning with Professor Koch of Berlin, Germany, and going through a long list of eminent pathologists and successful practitioners of the healing art in Europe, and in our own state we have Professor Vaughan, one of the most profound instructors known to our State University. We have also Professor Novy of the State University, and Dr. Henry B. Baker, the secretary of the State Board of Health, a man who has given a large part of a long life to the study of communicable diseases, to prove the communicability of this disease, and whatever may be our personal belief, or disbelief, we think this array of testimony should command grave consideration, if not entire conviction.

Our State Board of Health has placed consumption on the list of communicable diseases that are dangerous to the public health and have ordered it reported to local boards as communicable, and as said board is composed of eminent jurists, as well as pathologists, we are of the opinion that there is no doubt of their authority in making such order, and while such orders stand we believe it to be the duty of all physicians or householders having knowledge of such cases to report them. It is not the belief of any of the writers of the present time that houses where such cases are should be placarded, and that the sufferer should be isolated from the world, but they do believe much information may be furnished them, or their friends, that will not only be a comfort to them while they are suffering, but will materially increase their chances for recovery, and at the same time diminish the liability of communicating the disease to their friends.

We therefore desire to call the attention of all physicians and householders to this order of the State Board of Health, and hope all will comply, and let all work together in an earnest effort to check the march of this dread destroyer.

Our Bacteriological Department.

Health departments in all parts of the world at the present time depend largely on bacteriological research for the verification of diagnosis, and for the examination of such matters as may be suspected of being the cause of a particular disease.

During the past year we have added this branch to our department, and with a well equipped laboratory have placed it in the hands of Dr. A. M. Campbell, who is thoroughly qualified for such work, and he has been

of material advantage to us in the close attention he has given to such matters as have been placed before him.

The addition of this important branch to our department has increased our expenditures somewhat, but it is one of the additional lights brought out in the march of mind, and the advancement of science, and we believe the benefits derived to be so great as to make the sum expended look quite insignificant.

In concluding our report, we desire to express thanks to the Mayor and Common Council, and to all departments of the city for many courtesies extended to us during the year.

Respectfully submitted,

R. M. LUTON, M. D.,

Health Officer.

There were 1,493 burial permits issued during the year, of which 1,329 died in the city, and 164 were brought in for burial.

Of the number that died in the city 124 were premature or still born, leaving 1,205 who died of sickness or accident.

Of the 1,205 deaths in the city 134 were in the different public institutions, and 1,070 in the various wards as follows: First, 117; second, 43; third, 103; fourth, 87; fifth, 139; sixth, 135; seventh, 89; eighth, 46; ninth, 53; tenth, 109; eleventh, 88; twelfth, 62; and the deaths in public institutions were: Butterworth Hospital, 31; U. B. A. Hospital, 40; Home of the Aged 22; St. Mary's Hospital, 17; Children's Home, 11; Holland Home, 4; Woman's Home and Hospital, 2; and St. John's Orphan Asylum, 1.

Of the 1,205 deaths in the city, the social relations were: Married males, 235; married females, 216; widows, 99; widowers, 73. Dividing into periods of

infancy, all under 2 years; childhood from 2 to 10; youth, 10 to 20; manhood from 20 to 50; and all over 50 decline of life, and we find: In infancy, 281; childhood, 111; youth, 66; manhood, 332; and in the decline of life, 415.

Giving us a population of 90,000 this shows a death rate of 13.35 per thousand of population.

The five diseases usually giving the highest death rate are consumption, pneumonia, cancer in its different forms, typhoid fever and diphtheria, and a comparative table for the past ten years gives the following:

	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899
Consumption	119	112	129	121	134	130	117	117	111	113
Pneumonia	70	110	130	136	93	90	90	70	99	111
Cancer	25	41	45	33	38	41	47	45	45	40
Typhoid fever	30	43	52	70	36	33	9	14	25	31
Diphtheria	96	90	42	41	16	29	9	15	9	10

The social relations of those dying from consumption are: Married males, 21; married females, 36; single males, 28; single females, 21; and the ages by years: Under 1 year, 3; 1 to 2, 2; 2 to 5, 2; 5 to 10, 2; 10 to 20; 11; 20 to 30, 45; 30 to 40, 25; 40 to 50, 13; 50 to 60, 5; 60 to 70, 5; 70 to 80, 1; and of those dying from cancer we find: Married males, 4; married females, 20; single males, 2; single females, 1; widows, 8; widowers, 5; and the ages from 10 to 20, 2; 20 to 30, 0; 30 to 40, 6; 40 to 50, 7; 50 to 60, 13; 60 to 70, 5; 70 to 80, 1.

There were 1,541 births reported during the year, of which 792 were males and 749 females, and this giving our population as above shows a birth rate of 17.11.

The birth reports are still very incomplete, but each year we believe is making gains, and we would again

urge all to a compliance with this ordinance as it is the foundation of vital statistics.

There were 1,682 cases of contagious diseases reported to the department during the year, and of these diphtheria, membranous croup, scarlet fever and measles were quarantined by placard, the balance a verbal quarantine only was placed. The cases and the deaths therefrom were as follows: diphtheria, 125 cases, 10 deaths; membranous croup, 53 cases, 29 deaths; scarlet fever, 91 cases, 2 deaths; typhoid fever, 185 cases, 14 deaths. There were of this disease 17 deaths in cases not reported until reported by death certificate, making a total of 202 cases, and 31 deaths. Measles, 826 cases, 3 deaths; whooping cough, 156 cases, 3 deaths--there were 4 deaths from this disease not reported, making a total of 160 cases with 7 deaths; chicken pox, 67 cases, no deaths; cholera infantum, 25 cases, 12 deaths; spinal meningitis, 51 cases, 19 deaths--several deaths from this disease in cases not reported; consumption 78 cases, 35 deaths; small pox, 1 case, no death; puerperal fever, 1 case, 1 death.

The expense of the year, as per bills rendered and passed by the board were as follows:

Office expense account, for books, blanks, postage, etc.....	\$ 715 49
Care of contagious diseases.....	2,421 02
Hospital expense account.....	228 53
Amount due physicians for reporting con- tagious diseases.....	224 60
Inspectors' pay roll.....	3,585 45
Crematory expense account.....	3,962 11
Health officer's salary.....	1,500 00
Secretary.....	900 00
Making a total of.....	\$ 13,537 20

This is the first full year the crematory has been operated, and the expenses have considerably exceeded our expectations, making the running expenses of the department exceed the estimate given by us at the beginning of the year.

Approved by the Board of Health.

W. A. WILSON, Secretary.

The following tables show the deaths by quarters for the past ten years, with the social relations and ages by years; also contagious diseases reported and deaths from cases so reported.

1890	SOCIAL RELATIONS				AGES BY YEARS																
	Married	Single	Widows	Widowers	Under 1 year	1	2	5	10	20	30	40	50	60	70	80	90	Over 90	Unknown		
						to 2	to 5	to 10	to 20	to 30	to 40	to 50	to 60	to 70	to 80	to 90	to Over 90	Unknown			
January.....	24	54	7	4	15	7	6	6	12	8	6	7	5	7	7	3	0	0			
February.....	26	64	8	1	12	4	14	11	7	13	12	4	5	4	8	5	0	0			
March.....	23	36	8	3	6	9	10	2	4	19	9	2	7	9	5	2	0	0			
Total for First quarter.....	73	154	23	8	33	13	30	19	23	33	27	13	17	20	20	10	0	0			
April.....	27	39	9	1	11	2	6	7	7	9	11	7	4	7	4	1	0	0			
May.....	26	41	4	4	18	3	6	6	2	13	4	2	2	8	7	4	0	0			
June.....	19	27	6	2	11	5	1	0	4	6	7	3	4	2	6	4	0	0			
Total for Sec- ond quarter..	72	107	19	7	40	10	13	13	13	28	22	12	10	17	17	9	0	0			
July.....	21	63	6	3	28	4	6	3	5	6	4	8	6	8	2	3	0	0			
August.....	26	108	6	3	64	17	2	9	8	9	11	5	7	6	4	1	0	0			
September..	28	57	8	4	27	6	6	6	2	11	9	2	10	6	9	3	0	0			
Total for Third quarter.....	75	228	20	10	129	27	14	18	15	26	24	15	23	20	15	7	0	0			
October.....	22	36	5	3	10	2	4	9	6	6	10	3	6	7	3	0	0	0			
November....	29	33	5	3	9	1	2	9	3	8	9	6	7	6	4	2	0	1			
December....	21	46	9	3	14	3	7	9	3	9	10	5	5	5	5	3	0	0			
Tot. for Fourth quarter.....	72	115	19	9	33	6	13	27	12	23	29	14	19	18	12	5	0	1			
Total for year.	292	604	81	34	235	56	70	77	63	110	162	54	69	75	64	31	0	1			

1891	SOCIAL RELATIONS				AGES BY YEARS													
	Married	Single	Widows	Widower	Under 1 year	1 to 2	2 to 5	5 to 10	10 to 20	20 to 50	50 to 60	60 to 70	70 to 80	80 to 90	Over 90	Unknown	Over 100	
January.....	31	34	6	6	12	2	4	7	5	26	10	4	6	0	0	1	0	
February	29	52	6	6	24	3	2	7	6	21	10	8	7	1	0	0	1	
March.....	39	45	12	8	11	7	12	5	3	27	13	9	14	2	1	0	0	
Total for first quarter.....	90	131	24	17	47	12	18	19	14	74	33	21	27	3	1	1	1	
April.....	41	59	6	6	19	9	11	7	3	30	5	15	10	3	0	0	0	
May.....	35	28	7	10	11	1	5	3	5	27	8	8	5	5	0	0	0	
June	19	25	8	5	6	4	5	7	2	14	2	4	9	4	1	0	0	
Total for sec- ond quarter	95	112	21	21	36	14	21	17	10	71	15	27	24	12	1	0	0	
July.....	23	50	6	5	36	6	4	0	2	15	5	10	4	1	1	0	0	
August.....	31	101	4	7	64	14	5	9	4	21	10	3	7	3	1	0	0	
September....	24	93	17	4	51	15	3	9	11	19	4	13	9	3	1	0	0	
Total for third quarter	78	244	27	16	151	35	18	18	17	55	19	26	20	7	3	0	0	
October	39	63	14	4	29	7	14	3	6	29	13	10	7	2	0	1	0	
November ..	29	51	5	7	11	7	6	9	7	20	14	9	8	2	0	0	0	
December.....	39	50	8	6	16	5	7	8	8	24	13	7	12	3	0	0	0	
Tot. for fourth quarter	107	164	27	17	58	19	27	20	21	73	39	25	27	7	0	1	0	
Total for year.	379	651	99	71	290	80	78	74	62	273	106	100	98	29	5	2	1	

1892	SOCIAL RELATIONS				AGES BY YEARS															
	Married	Single	Widows	Widowers	Under 1 year	1 to 2	2 to 5	5 to 10	10 to 20	20 to 30	30 to 40	40 to 50	50 to 60	60 to 70	70 to 80	80 to 90	90 to 100	Unknown	1900	
January.....	62	62	15	13	23	5	6	5	10	44	16	20	19	12	1	0	1			
February.....	32	40	10	4	17	2	3	5	6	29	9	5	6	4	0	0	0			
March.....	36	36	11	3	12	1	8	4	6	36	5	9	8	2	0	0	0			
Total for first quarter.....	130	138	36	20	51	8	17	14	22	109	30	34	33	18	1	0	1			
April.....	40	53	6	6	16	6	10	4	10	34	6	8	6	6	2	0	0			
May.....	31	46	9	2	19	4	8	6	2	31	4	5	5	5	0	0	0			
June.....	35	35	7	3	14	3	2	8	1	29	9	4	6	4	0	0	0			
Total for sec- ond quarter..	106	134	22	11	49	13	20	18	13	94	19	17	17	15	2	0	0			
July.....	35	81	6	10	47	8	5	4	5	34	8	5	9	5	1	1	0			
August.....	33	81	5	5	53	10	7	1	4	25	9	8	3	4	0	0	0			
September....	32	56	5	1	22	12	7	7	4	21	7	6	7	3	1	0	0			
Total for third quarter.....	100	218	16	16	122	30	19	13	13	80	24	19	19	12	2	1	0			
October.....	36	36	5	7	14	5	7	2	8	30	8	7	7	2	3	2	0			
November.....	23	38	7	2	10	4	6	5	5	24	5	4	5	1	1	0	0			
December.....	31	33	12	6	9	6	4	4	4	26	7	12	8	3	0	0	0			
Total fourth quarter.....	90	107	24	15	33	14	17	11	17	70	20	23	20	6	4	2	0			
Total for year.	426	507	96	62	255	64	73	55	65	353	93	93	89	49	8	3	1			

1893	SOCIAL RELATIONS				AGES BY YEARS												
	Married	Single	Widows	Widowers	Under 1 year	1 to 2	2 to 5	5 to 10	10 to 20	20 to 50	50 to 60	60 to 70	70 to 80	80 to 90	Over 90	Unknown	
January	37	47	6	7	15	8	6	2	6	27	10	11	8	2	0	2	
February.....	24	51	13	4	19	3	4	4	11	26	1	7	7	9	0	0	
March.....	22	52	7	5	20	2	7	2	10	24	4	25	8	4	0	0	
Total for first quarter....	83	150	26	16	54	13	17	8	27	77	15	43	23	15	0	2	
April.....	46	49	8	3	16	2	19	2	6	38	12	7	6	5	1	1	
May.....	31	53	10	9	21	4	5	8	8	26	5	7	12	8	0	0	
June.....	32	42	3	7	19	3	0	5	8	29	5	6	8	3	0	0	
Total for second quarter.....	109	144	21	19	56	9	15	15	22	92	22	20	26	16	1	1	
July.....	30	49	4	2	20	1	5	7	8	25	5	9	4	1	0	0	
August.....	25	96	4	4	57	10	12	5	4	17	7	9	6	0	0	2	
September.....	31	54	6	2	38	3	2	5	4	21	5	3	6	4	0	2	
Total for third quarter.....	86	199	14	8	115	14	19	17	16	63	17	21	16	5	0	4	
October.....	30	52	8	7	26	6	3	7	8	15	12	6	7	5	1	0	
November.....	37	49	8	5	22	2	4	2	8	33	3	10	7	7	1	0	
December.....	48	61	7	9	20	9	5	3	5	34	15	12	12	5	2	3	
Total for fourth quarter.....	115	162	23	21	68	17	12	12	21	82	30	28	26	17	4	3	
Total for year...	393	655	84	64	293	53	63	52	86	314	84	112	93	53	5	10	

1894	SOCIAL RELATIONS				AGES BY YEARS												
	Married	Single	Widows	Widower	Under 1 year	1 to 2	2 to 5	5 to 10	10 to 20	20 to 50	50 to 60	60 to 70	70 to 80	80 to 90	Over 90	Unknown	
January	27	37	8	3	17	1	4	4	5	20	3	8	6	6	1	0	
February	26	30	7	2	8	4	4	1	1	27	2	9	8	1	0	0	
March	30	35	10	1	7	6	2	3	8	25	6	8	10	0	1	0	
Total for first quarter	83	102	25	6	32	11	10	8	14	72	11	25	24	7	2	0	
April	30	37	10	5	9	8	5	4	6	19	5	14	6	5	1	0	
May	40	40	5	1	14	4	9	4	5	27	6	6	5	6	0	0	
June	19	33	10	5	6	2	3	7	7	17	6	11	7	0	1	0	
Total for second quarter	89	110	25	11	29	14	17	15	18	63	17	31	18	11	2	0	
July	16	53	9	4	27	5	3	3	5	15	4	4	13	3	0	0	
August	24	71	8	4	37	14	8	0	4	19	5	7	5	6	2	0	
September	33	65	11	4	33	14	2	1	4	24	6	8	12	2	2	0	
Total for third quarter	73	189	28	12	97	33	13	4	13	63	15	19	30	11	4	0	
October	31	54	7	8	26	11	2	1	9	21	7	10	10	1	1	1	
November	31	48	8	4	22	3	5	5	4	27	6	4	12	3	0	0	
December	28	35	14	2	12	1	6	6	9	19	14	7	7	6	0	1	
Total for fourth quarter	90	137	29	14	60	15	13	12	22	67	27	21	29	10	1	2	
Total for year	266	538	107	41	147	73	53	39	67	265	70	96	101	39	9	2	

1895	SOCIAL RELATIONS					AGES BY YEARS												
	Married		Single	Widows	Widowers	Under 1 year	1	2	5	10	20	50	60	70	80	Over 90	Unknown	
	Males	Females					to 2	to 5	to 10	to 20	to 50	to 60	to 70	to 80	to 90	90		
January	19	20	41	13	4	9	4	2	6	7	36	14	8	7	4	0	0	
February.....	28	18	40	14	5	14	4	5	3	0	31	11	12	12	5	1	0	
March.....	29	19	43	23	10	12	6	5	4	7	37	9	12	21	9	2	0	
Total for first quarter.....	76	57	124	50	19	35	14	12	13	14	105	34	32	40	18	3	0	
April	28	29	35	8	6	16	5	1	4	3	29	14	10	15	7	1	1	
May.....	20	18	40	5	9	15	6	4	1	4	30	9	8	4	8	1	2	
June.....	20	18	25	5	9	16	5	2	4	2	24	10	7	4	3	0	0	
Total for sec- ond quarter.....	68	65	100	18	24	47	16	7	9	9	83	33	25	23	18	2	3	
July.....	9	18	45	8	4	31	2	3	0	1	21	7	6	5	5	2	1	
August.....	12	16	60	8	1	33	9	5	2	3	16	10	6	9	4	0	0	
September	11	8	52	8	4	27	1	7	3	7	11	11	6	6	2	0	3	
Total for third quarter.....	32	42	157	24	9	91	12	15	5	11	43	28	18	20	11	2	4	
October.....	17	11	51	5	4	16	4	8	7	7	17	7	10	9	4	0	0	
November.....	19	18	37	7	5	12	1	5	6	5	30	10	9	4	4	0	0	
December.....	7	20	24	7	8	8	1	5	3	5	19	8	5	9	3	0	0	
Total fourth quarter.....	43	49	112	20	17	36	6	18	16	17	66	25	24	22	11	0	0	
Total for year.....	219	213	493	112	69	209	48	52	43	51	302	120	99	105	58	7	7	

1896	SOCIAL RELATIONS				AGES BY YEARS													
	Married	Single	Widows	Widowers	Under 1 year	1 to 2	2 to 5	5 to 10	10 to 20	20 to 30	30 to 40	40 to 50	50 to 60	60 to 70	70 to 80	80 to 90	Over 90	Unknown
January.....	26	38	8	1	19	4	5	0	3	22	9	4	3	4	0	0		
February.....	36	40	7	7	13	5	4	6	6	27	6	16	4	3	0	0		
March.....	34	34	9	2	11	2	2	3	9	31	7	9	3	2	0	0		
Total for first quarter.....	96	102	24	10	43	11	11	9	18	60	22	29	10	9	0	0		
April.....	30	38	11	8	5	6	3	4	9	27	6	13	9	4	0	1		
May.....	27	33	5	1	11	2	2	2	9	20	3	7	7	1	0	0		
June.....	23	38	4	5	18	2	3	0	6	18	5	11	3	2	1	1		
Total for second quarter.....	80	109	20	14	34	10	8	6	24	65	14	31	19	7	1	2		
July.....	14	31	10	2	16	1	0	2	6	14	5	2	4	4	1	3		
August.....	31	42	6	8	30	2	2	0	3	21	7	9	8	5	0	0		
September.....	27	52	3	1	29	5	3	2	2	18	5	7	8	3	1	0		
Total for third quarter.....	72	123	19	11	75	8	5	4	11	53	17	18	20	12	2	2		
October.....	23	36	5	6	17	1	2	4	5	19	3	11	5	3	0	0		
November.....	30	25	12	6	7	4	2	3	4	18	11	6	11	6	1	0		
December.....	44	33	11	5	11	4	2	1	7	24	14	12	14	3	0	1		
Total for fourth quarter.....	97	94	28	17	35	9	6	8	16	61	28	29	30	12	1	1		
Total for year ...	345	433	91	53	187	38	30	27	69	259	81	107	79	40	4	5		

1897	SOCIAL RELATIONS					AGES BY YEARS												
	Married		Single	Widows	Widowers	Under 1 year	1	2	5	10	20	50	60	70	80	90 & over	Unknown	
	Male	Female					to 2	to 5	to 10	to 20	to 50	to 60	to 70	to 80	to 90			
January	20	23	31	6	4	13	3	3	2	2	37	3	10	8	3	0	0	
February.....	17	17	26	6	4	6	5	0	2	4	24	4	14	7	4	1	0	
March	20	17	47	9	5	20	3	6	4	4	24	7	14	8	7	1	0	
Total for first quarter.....	57	57	104	21	13	39	11	9	8	10	85	14	38	23	14	2	0	
April	16	10	32	8	9	8	6	4	1	11	14	7	11	8	4	1	0	
May	17	17	35	6	5	7	4	7	1	8	26	8	8	9	4	0	0	
June	11	16	33	7	5	10	6	8	5	4	10	6	8	9	5	0	0	
Total second quarter.....	44	43	100	21	19	25	16	19	7	23	48	21	27	26	13	1	0	
July.....	10	14	30	12	5	8	3	1	4	5	17	6	15	6	3	0	2	
August.....	15	15	39	8	4	25	2	2	3	3	18	9	6	8	3	1	1	
September....	8	11	58	7	3	35	3	4	8	5	16	4	6	7	3	1	1	
Total third quarter.....	33	40	127	27	12	68	8	7	10	13	51	19	27	21	9	2	4	
October	11	19	45	5	9	24	3	6	4	2	23	5	8	13	0	0	0	
November.....	16	13	29	9	8	11	4	2	3	3	18	9	9	11	4	1	0	
December	16	13	34	11	4	14	2	3	2	3	30	8	13	7	5	0	1	
Total fourth quarter.....	43	45	108	25	21	49	9	11	9	8	61	22	30	31	9	1	1	
Total for year.	177	195	439	94	65	181	44	46	34	54	245	73	123	101	45	6	5	

1898	SOCIAL RELATIONS				AGES BY YEARS													
	Married	Single	Widows	Widowers	Under 1 year	1 to 2	2 to 5	5 to 10	10 to 20	20 to 30	30 to 40	40 to 50	50 to 60	60 to 70	70 to 80	80 to 90	90 to 100	Unknown
January.	27	41	8	4	19	3	6	3	2	20	1	9	13	4	0	0	0	
February..	22	31	8	6	10	5	0	4	3	15	7	7	10	6	0	0	0	
March.	41	49	19	5	16	8	5	0	3	28	11	13	15	6	2	0	0	
Total for first quarter.....	90	114	35	15	45	16	11	7	8	63	19	29	38	16	2	0	0	
April.	10	50	16	8	26	6	4	4	3	20	9	12	16	10	3	0	0	
May.....	42	35	8	3	8	5	3	0	5	29	10	15	6	7	0	0	0	
June.....	26	33	8	5	15	2	3	2	4	17	8	3	10	5	1	2	0	
Total second quarter.....	108	118	33	16	49	13	10	6	12	66	27	30	32	22	4	2	0	
July.	19	30	9	4	11	4	2	2	6	16	2	8	7	4	0	0	0	
August.....	18	50	8	2	23	2	1	2	7	18	2	8	4	2	0	0	0	
September.....	27	48	6	5	29	4	1	2	8	19	6	8	7	1	1	0	0	
Total third quarter.....	64	128	23	11	73	10	4	6	21	53	10	24	18	7	1	0	0	
October.....	31	28	10	5	13	0	3	2	6	22	5	10	8	6	0	0	0	
November.....	33	33	15	5	10	4	2	2	9	22	7	10	13	6	2	0	0	
December.	27	29	10	8	13	2	5	2	2	19	5	12	10	3	2	0	0	
Total fourth quarter.....	91	90	35	18	36	6	10	6	17	63	17	32	31	15	4	0	0	
Total for year.....	353	450	115	60	203	45	35	25	58	245	73	115	119	60	11	2	0	

1899	SOCIAL RELATIONS					AGES BY YEARS													
	Married		Single	Widows	Widowers	Under 1 year	1	2	5	10	20	50	60	70	80	Over	Unknown		
	Males	Females					to 2	to 5	to 10	to 20	to 50	to 60	to 70	to 80	to 90				
January.	28	24	49	5	8	16	4	3	4	12	34	7	13	10	10	1	0		
February.	28	29	67	19	8	24	6	8	6	5	39	13	19	19	6	2	2		
March.	21	36	73	12	4	30	8	11	4	6	34	15	20	12	5	0	0		
Total first quarter.	77	89	189	36	20	70	18	22	14	23	107	35	52	41	21	3	2		
April.	19	23	51	7	3	13	8	2	5	12	34	3	13	8	5	0	0		
May.	13	15	32	9	7	12	4	1	2	5	20	7	10	10	4	1	0		
June.	12	8	31	4	5	10	6	4	1	2	21	5	5	3	3	0	0		
Total second quarter.	44	45	114	20	15	35	18	7	8	19	75	15	28	21	12	1	0		
July.	12	14	53	7	7	30	3	3	5	5	20	5	11	7	2	2	0		
August.	19	14	48	4	4	29	5	3	1	4	22	6	10	6	3	0	0		
September. ...	17	13	50	5	6	29	1	1	4	6	24	9	3	7	4	1	0		
Total third quarter.	48	41	151	16	17	88	9	7	10	15	66	20	24	20	9	3	0		
October.	23	14	50	8	5	20	4	6	10	3	28	11	6	6	4	2	0		
November.	21	16	34	10	7	14	1	8	2	3	26	11	12	10	6	5	1		
December.	21	10	43	12	9	12	3	8	7	5	24	5	9	15	8	0	0		
Total fourth quarter.	65	40	127	30	21	46	8	22	19	11	78	27	27	31	18	7	1		
Total for year.	234	215	581	102	73	239	53	58	51	68	326	97	131	113	62	14	3		

CONTAGIOUS DISEASES.

1890	DIPHTHERIA		SCARLET FEVER		TYPHOID FEVER		MEASLES		WHOOPING COUGH		CHICKEN POX		CHOLERA INFANTUM		MEMBRANEOUS CROUP		CHOREO SPINAL MENINGITIS	
	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths
January	46	12	13	2	26	1	910	0	0	0	1	0	0	0	1	0	0	0
February	62	16	23	1	8	0	137	0	1	0	1	0	0	0	5	0	0	0
March	54	9	13	0	4	1	121	1	1	1	1	0	0	0	3	0	0	0
Total for first quarter	162	37	49	3	38	1	468	1	1	1	3	0	0	0	9	0	0	0
April	18	6	17	0	13	3	137	1	0	0	0	0	0	0	0	1	0	0
May	19	8	10	0	0	0	106	1	0	0	1	0	0	0	1	1	0	0
June	9	0	6	0	1	0	24	0	0	0	4	0	0	0	0	0	0	0
Total second quarter	46	14	33	0	14	3	267	2	0	0	5	0	0	0	1	2	0	0
July	9	4	2	0	4	0	6	0	4	0	2	0	13	*26	0	0	0	0
August	18	7	9	0	22	6	5	0	4	0	1	0	49	36	0	0	0	0
September	28	6	22	1	43	6	4	0	0	0	0	0	2	8	0	0	0	0
Total third quarter	55	17	33	1	69	12	15	0	8	0	3	0	63	70	0	0	0	0
October	21	10	27	1	26	6	0	0	0	0	1	0	0	1	1	1	0	0
November	30	7	28	1	28	5	1	0	2	0	3	0	0	0	3	3	0	0
December	34	10	43	1	18	3	2	0	0	0	4	0	0	1	0	0	0	0
Total fourth quarter	85	27	98	3	72	14	3	0	2	0	8	0	0	2	4	4	0	0
Total for year	348	96	213	7	193	30	753	3	11	1	19	0	63	72	14	6	0	0

*Several deaths from Cholera Infantum not reported as cases of contagious diseases.

1891	DIPHTHERIA		SCARLET FEVER		TYPHOID FEVER		MEASLES		WHOOPING COUGH		CHICKEN-POX		CHOLERA INFANTUM		MEMBRANOUS CROUP		CEREBRO-SPINAL MENINGITIS	
	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths
January	35	7	35	0	32	2	5	0	6	0	.....	.....	0	0	2	2	..	..
February	14	5	34	3	29	4	5	0	14	0	.....	.....	0	0	0	0	..	..
March	42	9	48	5	10	7	6	0	6	0	.....	.....	0	0	0	0	..	..
Total for first quarter	91	21	117	8	71	13	16	0	26	0	.....	.....	0	0	2	2	..	..
April	16	3	32	4	4	2	13	0	18	2	.....	.....	0	0	2	2	..	..
May	11	3	33	1	12	2	28	0	25	1	.....	.....	0	0	0	0	..	..
June	18	5	38	2	4	1	85	0	24	2	.....	.....	1	0	0	0	..	..
Total second quarter	45	11	103	7	20	5	126	0	67	5	.....	.....	1	0	2	2	..	..
July	25	5	49	3	6	1	25	0	24	2	.....	.....	9	6	1	1	..	..
August	74	12	55	0	28	0	13	0	24	0	.....	.....	18	*25	0	0	..	..
September	35	13	58	2	36	10	10	0	27	1	.....	.....	3	11	0	0	..	..
Total third quarter	135	30	162	5	70	11	48	0	75	3	.....	.....	30	42	1	1	..	..
October	42	11	54	1	38	3	3	0	19	1	.....	.....	1	0	1	1	..	..
November	31	11	62	3	24	7	0	0	5	0	.....	.....	0	0	3	3	..	..
December	28	6	53	1	28	4	1	0	8	0	.....	.....	0	0	0	0	..	..
Total fourth quarter	101	28	169	5	90	14	4	0	32	1	.....	.....	1	0	4	4	..	..
Total for year	372	90	491	25	251	43	194	0	200	9	.....	.....	32	42	9	9	..	..

*Several deaths from Cholera Infantum not reported as contagious diseases

1892	DIPHTHERIA		SCARLET FEVER		TYPHOID FEVER		MEASLES		WHOOPING COUGH		CHICKEN POX		CHOLERA INFANTUM		MEMBRANOUS GROUP		CEREBRO SPINAL MENINGITIS	
	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths
January.....	11	1	27	1	9	1	0	0	4	0	2	0	0	0	1	1	0	0
February.....	13	2	22	2	11	2	4	0	3	0	1	0	0	0	0	0	0	0
March.....	7	0	12	1	66	6	3	0	0	0	3	0	0	0	0	0	0	0
Total first quarter.....	31	3	61	4	86	9	7	0	7	0	6	0	0	0	1	1	0	0
April.....	15	5	28	0	57	9	3	0	1	0	8	0	0	0	0	0	0	0
May.....	25	5	24	0	24	1	5	3	3	0	14	0	0	0	2	1	0	0
June.....	12	4	27	0	7	1	8	1	5	0	6	0	2	1	2	2	1	1
Total second quarter.....	52	14	79	0	88	11	16	4	9	0	28	0	2	1	4	3	1	1
July.....	5	2	19	1	5	2	1	0	5	1	1	0	8	4	0	0	0	1
August.....	13	3	16	0	15	3	1	0	14	0	3	0	22	3	0	0	2	2
September...	21	4	25	0	40	2	0	0	9	1	1	0	12	1	0	0	0	0
Total third quarter.....	39	9	60	1	60	7	2	0	29	2	5	0	42	8	0	0	2	3
October.....	21	2	18	0	23	2	0	0	5	0	1	0	13	0	3	2	0	0
November....	23	7	33	1	16	1	0	0	0	0	1	0	0	0	0	0	0	0
December.....	33	10	29	1	9	1	2	0	3	0	1	0	0	0	1	0	0	0
Total fourth quarter.....	77	19	80	2	48	4	2	0	8	0	3	0	13	0	4	2	0	0
Total for year.	199	45	280	7	282	31	27	4	53	2	42	0	57	9	9	6	3	4

1893	DIPHTHERIA		SCARLET FEVER		TYPHOID FEVER		MEASLES		WHOOPING COUGH		CHICKEN POX		CHOLERA INFANTUM		MEMBRANOUS CROUP		CEREBRO SPINAL MENINGITIS		PURPURAL FEVER		CONSUMPTION	
	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths
January...	22	6	34	1	14	2	26	0	4	0	8	0	0	0	0	0	0	0	0	0	0	0
February.	20	5	24	0	26	4	51	0	5	0	5	0	0	0	1	0	0	0	0	0	0	0
March.	21	1	15	1	46	7	31	0	12	0	19	0	0	0	1	1	0	0	1	1	0	0
Total first quarter.	63	12	73	2	86	13	108	0	21	0	27	0	0	0	2	1	0	0	1	1	0	0
April	10	0	21	0	33	4	17	0	27	0	6	0	0	0	5	4	0	0	0	0	0	0
May.....	19	3	28	5	9	3	84	2	36	0	21	0	0	0	0	0	2	1	0	0	0	0
June.....	11	6	28	1	8	1	245	1	43	2	17	0	1	0	1	0	0	0	0	0	0	0
Total 2d quarter..	40	9	77	6	50	8	346	3	106	2	44	0	1	0	6	4	2	1	0	0	0	0
July.....	27	8	17	1	12	3	190	2	40	2	7	0	4	1	2	0	0	0	0	0	0	0
August....	10	1	15	1	24	2	40	0	48	1	1	0	32	9	0	0	3	3	0	0	0	0
September	17	2	17	0	28	3	14	0	4	0	0	0	8	1	1	1	0	0	0	0	0	0
Total third quarter..	54	11	49	2	64	8	244	2	92	3	8	0	44	11	3	1	3	3	0	0	0	0
October....	25	7	36	1	48	3	21	0	5	1	10	0	0	0	1	0	1	1	0	0	0	0
November.	13	1	20	0	56	9	86	0	3	0	36	0	0	0	1	0	1	0	0	0	0	0
December.	14	1	10	1	52	5	143	1	5	0	32	0	0	0	1	1	0	0	0	0	4	2
Total 4th quarter..	52	9	66	2	156	17	250	1	13	1	78	0	0	0	3	1	2	1	0	0	4	2
Total, year	209	41	265	12	356	46	948	6	232	6	157	0	45	11	14	7	7	5	1	1	4	2

1894	DIPHTHERIA		SCARLET FEVER		TYPHOID FEVER		MEASLES		WHOOPING COUGH		MUMPS		CHICKEN POX		SMALL POX		CHOLERA INFANTUM		MEMBRANOUS CROUP		CEREBRO SPINAL MENINGITIS		PUERPERAL FEVER		CONSUMPTION	
	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths
January	5	1	7	0	25	6	105	0	3	0	0	0	19	0	0	0	0	0	1	1	0	0	0	0	0	0
February	8	1	17	0	15	2	311	0	2	0	2	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0
March.	4	0	17	0	13	1	913	4	1	0	1	0	17	0	0	0	0	0	0	2	0	0	0	0	0	0
Total for first quarter.....	17	2	41	0	53	9	1329	4	6	0	3	0	52	0	0	0	0	0	1	1	2	0	0	0	0	0
April	3	0	20	0	16	1	894	2	3	0	8	0	7	0	0	0	0	0	0	0	1	1	0	0	0	0
May.	1	0	23	4	10	1	283	0	13	0	2	0	9	0	1	0	0	0	0	0	1	1	0	0	2	1
June	5	0	23	3	11	1	47	0	9	0	4	0	2	0	3	0	0	0	0	0	0	0	1	0	15	1
Total second quarter.....	9	0	66	7	37	3	1224	2	25	0	14	0	18	0	4	0	0	0	0	2	2	1	0	17	2	2
July.	2	1	5	0	12	1	9	0	4	0	3	0	0	0	0	5	2	0	0	1	0	0	0	15	2	2
August	1	1	8	0	14	1	2	0	13	0	3	0	0	0	0	30	22	0	0	0	0	0	0	12	11	1
September.....	5	1	6	0	38	4	2	0	15	0	0	0	1	0	0	13	2	0	0	0	0	0	0	3	1	1
Total third quarter.....	8	3	19	0	59	6	13	0	32	0	8	0	1	0	0	48	26	0	0	1	0	0	0	30	14	4
October	18	2	9	1	37	7	1	0	42	2	0	0	4	0	0	0	1	0	0	0	0	0	0	8	0	0
November	18	3	5	0	15	4	4	0	44	0	2	0	9	0	0	0	0	1	0	0	0	0	0	4	1	1
December.. . . .	21	6	15	0	12	1	10	0	16	0	49	0	17	0	0	0	1	1	0	0	0	0	0	2	0	0
Total fourth quarter.....	57	11	29	1	64	12	15	0	102	2	51	0	30	0	0	0	1	2	1	0	0	0	0	14	1	1
Total for year.	91	16	155	8	213	30	2581	6	165	2	78	0	88	0	4	0	49	28	2	1	5	2	1	0	61	17

1895	DIPHTHERIA		SCARLET FEVER		TYPHOID FEVER		MEASLES		WHOOPING COUGH		MUMPS		CHICKEN POX		SMALL POX		CHOLERA INFANTUM		MEMBRANOUS GROUP		OBSCURE SPINAL MENINGITIS		PERIPNEURAL FEVER		CONSUMPTION	
	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths
January...	15	3	20	0	15	5	25	0	24	0	134	0	40	0	0	0	0	0	1	1	0	0	0	0	0	...
February..	8	2	11	1	12	2	40	0	12	0	156	0	12	0	0	0	0	0	1	0	0	0	0	2	1	...
March ...	14	1	21	1	25	2	64	0	16	0	130	0	4	0	1	0	0	0	1	1	0	0	0	0	0	...
Total first quarter..	37	6	52	2	52	9	129	0	52	0	420	0	56	0	1	0	0	0	3	2	0	0	2	1	...	...
April.....	6	1	18	2	7	3	29	0	19	0	89	0	1	0	0	0	0	0	0	0	0	0	0	0	0	...
May	10	3	19	0	7	3	19	0	13	0	53	0	1	0	0	0	1	1	1	1	2	2	0	0	0	...
June... ..	3	1	8	0	8	1	11	0	0	0	12	0	2	0	0	0	1	0	1	0	0	0	0	0	0	...
Total 2d quarter..	19	5	35	2	22	7	59	0	32	0	154	0	4	0	0	0	2	1	2	1	2	2	0	0	0	...
July.....	2	0	10	0	2	0	1	0	10	1	8	0	1	0	0	0	5	3	0	0	0	0	0	0	0	...
August....	6	0	14	1	13	0	0	0	4	0	3	0	4	0	0	0	11	4	0	0	0	0	0	0	0	...
September	18	0	10	1	33	3	0	0	1	0	2	0	2	0	0	0	6	1	1	1	2	2	0	0	0	...
Total third quarter..	26	0	34	2	48	3	1	0	15	1	13	0	7	0	0	0	22	8	1	1	2	2	0	0	0	...
October....	39	4	14	0	19	4	3	0	6	0	0	0	6	0	0	0	0	0	6	6	0	0	0	0	0	...
November..	37	10	26	0	23	1	1	0	4	0	8	0	18	0	0	0	0	0	1	1	0	0	0	0	0	...
December..	38	4	20	0	18	1	5	0	4	0	15	0	25	0	0	0	0	0	1	0	0	0	0	0	0	...
Total 4th quarter..	104	18	60	0	100	6	9	0	14	0	23	0	49	0	0	0	0	0	8	7	0	0	0	0	0	...
Total year	186	29	184	6	222	25	198	0	113	1	610	0	116	0	1	0	24	9	14	11	4	4	2	1	...	...

1896	DIPHTHERIA		SCARLET FEVER		TYPHOID FEVER		MEASLES		WHOOPING COUGH		CHICKEN POX		MUMPS		CHOLERA INFANTUM		MEMBRANOUS GROUP		GERMAN SPINAL MENINGITIS		CONSUMPTION		PURPURAL FEVER	
	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths
January ...	11	0	20	0	14	0	21	0	6	0	21	0	12	0	0	0	2	1	0	0	3	9	0	0
February ..	5	2	20	1	8	1	92	0	1	0	12	0	6	0	0	0	1	1	0	0	0	9	0	0
March ...	5	3	20	0	11	2	51	1	7	0	4	0	11	0	0	0	0	0	0	0	1	8	0	0
Total 1st quarter..	21	5	60	1	33	3	164	1	14	0	37	0	29	0	0	0	3	2	0	0	4	26	0	0
April	5	0	14	1	11	1	22	0	16	0	8	0	16	0	0	0	2	1	0	0	0	20	0	0
May	1	0	6	0	9	0	64	0	2	0	1	0	6	0	0	1	1	1	0	0	2	11	0	0
June	5	0	22	0	2	1	39	0	8	3	5	0	3	0	1	2	0	0	0	1	1	8	0	0
Total 2d quarter..	11	0	42	1	22	2	125	0	26	3	14	0	25	0	1	3	3	2	0	1	3	39	0	0
July	3	0	17	0	8	0	3	0	10	0	0	0	3	0	2	2	0	0	0	1	0	8	0	0
August	0	0	5	0	14	0	1	0	8	0	0	0	0	0	2	0	0	0	1	1	0	8	0	0
September	6	1	11	0	19	0	4	0	19	0	2	0	0	0	0	0	1	1	0	0	1	7	1	1
Total 3d quarter	9	1	33	0	41	0	8	0	30	0	2	0	3	0	4	2	1	1	1	2	1	23	1	1
October ...	8	1	36	0	10	2	1	0	0	0	5	0	0	0	0	0	1	1	0	0	0	5	0	0
November	13	1	26	0	12	1	1	0	14	0	11	0	3	0	0	0	3	3	0	0	1	6	0	0
December ..	4	1	15	0	12	1	0	0	12	1	21	0	5	0	0	0	3	1	0	1	1	18	0	0
Total 4th quarter..	25	3	77	0	34	4	2	0	26	1	37	0	8	0	0	0	7	5	0	1	2	29	0	0
Tot'l for yr	66	9	212	2	130	9	299	1	96	4	90	0	65	0	5	5	14	10	1	4	10	117	1	1

1897	DIPHTHERIA		SCARLET FEVER		TYPHOID FEVER		MEASLES		WHOOPING COUGH		CHICKEN POX		CHOLERA INFANTUM		MEMBRANEOUS GROUP		CEREBRO SPINAL MENINGITIS		PURPURAL FEVER		CONSUMPTION		MUMPS	
	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths
January...	6	1	21	1	10	2	2	0	38	0	13	0	0	0	1	1	0	0	0	0	4	11	3	0
February..	4	1	20	0	5	0	11	0	38	1	5	0	0	0	0	0	0	0	0	0	12	1	0	0
March	5	2	20	0	14	0	107	1	42	0	2	0	0	0	3	0	1	1	0	0	1	14	0	0
Total first quarter..	15	4	61	1	29	2	120	1	118	1	20	0	0	0	6	1	1	1	0	0	5	37	4	0
April.....	2	1	15	0	16	2	278	0	33	0	14	0	1	0	0	0	0	0	0	0	1	7	0	0
May.....	0	0	10	0	7	0	685	4	6	0	18	0	0	0	0	0	0	0	0	0	13	1	0	0
June.....	3	2	9	1	5	1	1479	5	8	0	13	0	1	1	0	0	0	0	0	0	0	7	0	0
Total 2d quarter..	5	3	34	1	28	3	2442	9	45	0	47	0	2	1	0	0	0	0	0	0	1	29	1	0
July.	6	2	5	0	4	0	271	1	10	0	1	0	1	1	1	0	0	0	0	0	0	5	0	0
August....	6	1	7	0	14	1	27	0	0	0	1	0	11	3	0	0	0	0	0	0	0	8	0	0
September	5	1	7	1	6	0	4	0	0	0	0	0	4	2	0	0	1	1	0	0	12	0	0	0
Total third quarter..	17	4	19	1	24	1	302	1	10	0	2	0	16	6	1	0	1	1	0	0	0	25	0	0
October...	0	1	10	0	12	0	1	0	1	0	3	0	2	2	1	1	0	0	0	0	0	9	0	0
November.	16	2	22	1	10	1	2	0	2	0	13	0	0	0	0	0	0	0	0	0	5	4	0	0
December.	12	1	15	2	6	1	1	0	2	0	22	0	0	0	2	0	0	0	0	0	1	12	0	0
Total 4th quarter..	28	4	47	3	28	2	4	0	5	0	38	0	2	2	3	1	0	0	0	0	1	26	4	0
Total, year	65	15	161	6	109	8	2868	11	180	1	105	0	20	9	10	2	2	2	0	0	7	117	9	0

1898	DIPHTHERIA		SCARLET FEVER		TYPHOID FEVER		MEASLES		WHOOPING COUGH		CHICKEN POX		CHOLERA INFANTUM		MEMBRANEOUS GROUP		CEREBRO SPINAL MENINGITIS		PURPERAL FEVER		CONSUMPTION		MUMPS	
	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths
January..	8	1	6	0	4	1	6	0	4	0	3	0	0	0	1	0	0	0	0	0	1	0	1	0
February..	1	0	7	1	3	0	3	0	2	0	6	0	0	0	2	2	0	0	0	0	1	0	1	0
March.....	3	0	8	0	5	2	15	0	21	0	3	0	0	0	0	0	0	0	0	0	0	0	7	0
Total 1st quarter..	12	1	21	1	12	3	24	0	27	0	12	0	0	0	3	2	0	0	0	0	2	0	9	0
April . .	0	0	5	1	1	1	11	0	10	0	6	0	0	0	0	0	0	0	0	0	0	0	1	0
May....	3	1	5	0	5	2	50	1	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0
June.....	0	0	7	0	9	1	45	0	5	0	2	0	0	0	0	0	0	0	0	0	1	1	2	0
Total 2d quarter..	3	1	17	1	15	4	106	1	15	0	16	0	0	0	0	0	0	0	0	0	1	1	3	0
July.....	1	0	2	0	3	0	9	0	5	0	4	0	6	2	0	0	0	0	0	0	3	2	0	0
August ...	1	1	1	0	8	3	4	0	0	0	1	0	6	3	0	0	0	0	0	0	1	1	0	0
September	3	2	0	0	29	5	0	0	3	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
Total 3d quarter..	5	3	3	0	40	8	13	0	8	0	5	0	13	5	0	0	0	0	0	0	5	3	0	0
October....	8	1	5	0	36	1	2	0	0	0	1	0	0	0	0	0	0	0	0	2	2	0	0	
November..	10	2	8	0	31	2	1	0	1	0	12	0	0	0	1	0	1	1	0	0	1	0	1	0
December..	5	2	4	0	14	0	2	0	2	0	19	0	0	0	3	3	3	2	0	0	1	1	7	0
Total 4th quarter..	24	5	17	0	81	3	5	0	3	0	32	0	0	0	4	2	4	3	0	0	4	3	8	0
Total year	44	10	58	2	148	18	148	1	53	0	65	0	13	5	7	4	4	3	0	0	12	7	20	0

1899	DIPHTHERIA		SCARLET FEVER		TYPHOID FEVER		MEASLES		WHOOPING COUGH		CHICKEN POX		CHOLERA INFANTUM		MEMBRANEOUS GROUP		CEREBRO SPINAL MENINGITIS		SMALL POX		CONSUMPTION		PUPPERAL FEVER		MUMPS	
	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths
January...	5	0	2	0	9	2	6	0	0	0	21	0	0	0	3	2	3	1	0	0	0	0	0	5	0	
February..	14	0	1	0	6	1	1	0	0	0	6	0	0	0	6	5	2	0	0	0	0	0	0	0	0	
March.....	12	3	1	0	16	1	15	1	0	0	6	0	0	0	3	11	4	0	0	0	0	0	0	3	0	
Total first quarter..	31	3	4	0	31	4	23	1	0	0	33	0	0	0	12	8	19	7	0	0	0	0	0	8	0	
April.....	12	0	14	0	6	1	27	0	0	0	3	0	0	0	0	15	7	0	0	5	3	0	0	3	0	
May.....	3	0	9	0	3	0	191	0	5	0	4	0	0	0	0	8	3	0	0	1	1	0	0	0	0	
June.....	3	0	3	0	11	1	272	1	3	0	3	0	0	0	1	0	1	0	0	2	1	0	0	3	0	
Total 2d quarter..	18	0	26	0	20	2	490	1	8	0	10	0	0	0	1	0	24	10	0	8	5	0	0	6	0	
July.....	3	0	4	0	21	1	60	0	16	1	0	0	10	5	1	0	2	1	0	0	2	2	0	2	0	
August ...	2	1	2	0	25	5	8	0	17	1	0	0	7	4	0	0	0	0	0	10	7	1	1	0	0	
September	6	0	21	1	24	1	10	0	20	0	0	0	6	1	2	2	4	1	0	0	22	6	0	4	0	
Total third quarter..	11	1	27	1	70	7	78	0	53	2	0	0	23	10	3	2	6	2	0	0	33	15	1	1	6	0
October ...	17	3	14	2	33	3	9	0	15	0	5	0	1	0	12	9	0	0	1	0	13	5	0	0	0	0
November.	31	1	6	0	28	3	61	0	35	1	9	0	1	1	15	2	1	0	0	0	14	6	0	0	0	0
December.	17	2	14	0	3	1	166	1	45	0	10	0	0	0	10	8	1	0	0	0	8	4	0	0	3	0
Total 4th quarter..	65	6	34	2	64	7	236	1	95	1	24	0	2	1	37	19	2	0	1	0	35	15	0	0	3	0
Total, year	125	10	91	3	185	14	826	3	156	3	67	0	25	11	53	29	51	19	1	0	78	35	1	1	23	0

REPORT OF BUILDING INSPECTOR.

OFFICE OF THE CITY BUILDING INSPECTOR, }
GRAND RAPIDS, MICH., April 24, 1900. }

*To the Honorable the Mayor and Common Council of the
City of Grand Rapids:*

GENTLEMEN—I herewith submit the annual report
of my office:

Number of permits issued.....	535
Number of permits issued for dwellings.....	196
Number of permits issued for brick buildings.....	29
For repairs and alterations.....	310
Buildings inspected.....	600
Buildings made safe.....	4
Buildings demolished by me.....	1
Chimneys rebuilt.....	10
Chimneys made safe.....	25
Fire escapes built	8
Smokestacks equipped with spark burners	6
Receipts for building permits.....	\$723.50

Yours respectfully,

WM J. RYAN,

Building Inspector.

REPORT OF CEMETERY COMMISSIONERS.

OFFICE OF CEMETERY COMMISSIONERS, }
GRAND RAPIDS, MICH., April 19, 1900. }

*To the Honorable Mayor and Common Council of the
City of Grand Rapids:*

GENTLEMEN—The Cemetery Commissioners of the city of Grand Rapids beg leave to submit for your consideration the following report of its doings for the year ending with the present date:

The amount of the receipts and disbursements for the several cemeteries of the city for the year are shown in detail by the table herewith submitted. In addition to the ordinary running expenses of the cemeteries there has been added to the perpetual care fund the sum of \$1,444.00, and \$2,000.00 has been paid on the cemetery debt during the current year.

Ten acres have been added to the platted area of Greenwood cemetery, which will relieve the call for lots in this ground. The Commission have appropriated the sum of \$2,000.00 to the purpose of constructing a suitable building at Greenwood cemetery the coming year, and request that the Council take the necessary steps to instruct the Board of Public Works to cause the erection of the same. The Commission deem it but just to say that it hopes that the money expended for this building will be placed in the budget for the year 1901.

The permanent repair fund, from ten per cent. of the total receipts, now amounts to the sum of \$3,903.10,

and the trust funds deposited with the Commissioners for the perpetual care of lots now amounts to \$2,074.83. In time the cemeteries will be pretty well sold up, and their income from the sale of lots will, of course, cease, when their maintenance will depend very materially upon these funds.

During the year 1899 a large water main was laid from East street into Valley City cemetery, materially improving the water service there.

The Potter's Field—so-called—has been entirely remodelled, and when the improvements, in the way of lawn, flower beds and walks are completed it will be as attractive as any part of the cemetery.

A handsome hedge has replaced a part of the fence around Oak Hill cemetery, on Hall street, and it is proposed to extend this feature as fast as possible. Last season the Common Council turned over to the Commissioners five acres of land adjoining Oak Hill on the north, which will be improved as fast as practicable.

Again we wish to call attention to the fact that street car facilities to all the city cemeteries are badly needed, and we trust that something can be done at an early day to bring about an improvement in this particular, as with the present facilities they are quite inaccessible.

Respectfully submitted,

CEMETERY COMMISSIONERS.

H. G. BARLOW, President.

PRESIDENT'S ADDRESS.

To the Honorable Board of Cemetery Commissioners :

GENTLEMEN—As my official position as President of this Board will terminate the last day of the present month, it may be proper for me to call attention, briefly, to some of the more important actions of the Board during my connection with it. There have been but two changes in its membership—Mr. Pulte succeeding Mr. Madden in 1898, and Mr. Ball succeeding Mr. Davis in 1899.

About the first work of the Board after my becoming a member was the compiling of a new set of rules for the government of the cemeteries. I believe I was made chairman of the committee having this matter in hand. After a very extensive correspondence with other cities, a set of rules was finally framed and adopted and these rules govern our cemeteries to-day.

I believe the most important transaction during my connection with the Board, was the purchase from Mrs. Eliza Giddings of her interest in Oak Hill Cemetery. This was done at a cost of about \$22,000.00. Previous to this purchase, the city controlled the cemetery, under a contract ; half of the proceeds of all lot sales going to Mrs. Giddings. By this purchase the city came into complete possession of about 800 lots. Another quite important item was the building of a new office in Oak Hill Cemetery, at a cost of about \$4,000.00.

The city charter provides for a sinking fund, to keep in good condition the roads of our cemeteries, abandoned and neglected lots, etc. During the last three years

10 per cent. of the cemetery receipts have been set aside for this purpose. The charter also empowers the Cemetery Board to accept from lot owners, endowments for the perpetual care of their lots. This feature is growing in favor and there is now in the hands of the commissioners, drawing from 3 per cent. to $4\frac{1}{2}$ per cent. interest, about \$7,000.00, from these two sources. In time the cemeteries will, of course, be pretty well sold up and their maintenance will then depend very materially on these funds. Last year (1899) a large water main was laid from East Street into Valley City Cemetery, materially improving the water service there. The Potters' Field (so-called) has been entirely remodelled and when the improvements in the way of lawn, flower beds, and walks, are completed, will be as attractive as any part of the cemetery. A handsome hedge has replaced a part of the fence around Oak Hill Cemetery on Hall Street, and it is proposed to extend this feature as fast as possible, so as to entirely do away with the fences on Hall Street at least.

Last year the city council turned over to the Cemetery Board five acres of land adjoining Oak Hill on the north, which will be improved as fast as practicable. During the summer of 1899 about eight acres in Greenwood were improved, roads and walks laid out and lots platted. This was much needed as nearly all available lots in this cemetery has been sold. A new office is badly needed in Greenwood, the old one being scarcely inhabitable. The main entrances of both Valley City and Oak Hill on Hall Street should be improved at once, their present appearance being very unsatisfactory and unworthy of the cemeteries. I trust that our successors will be able to accomplish this during the coming summer.

Street car facilities to all the city cemeteries are badly needed, and I hope something can be done at an early day to bring about an improvement in this particular.

Respectfully,

H. G. BARLOW, President.

Valley City and Oak Hill Cemeteries.

	RECEIPTS							DISBURSEMENTS		
	Care	Burial	Moving Boxes	Bedding	Vault Rent	Sundries	Lot Sales	Labor	Supplies	Sundries
April	\$ 68 00	\$ 102 00	.....	.....	\$ 18 00	\$ 43 13	\$ 971 25	\$ 188 25	\$ 21 62	\$ 112 83
May	524 25	106 00	.....	0 50	23 25	26 76	493 23	1,104 97	17 64	221 60
June	722 25	81 00	\$ 19 00	42 25	42 25	115 89	839 40	1,487 31	256 55	219 47
July	450 00	78 00	25 00	38 75	21 50	40 73	377 00	873 80	204 14	38 12
August	156 00	90 00	34 00	23 00	50	24 35	632 50	1,061 25	55 92	1,883 61
September	741 00	117 00	15 00	53 50	2 00	62 46	928 08	961 90	136 37	46 25
October	216 50	116 00	2 00	27 00	..	47 29	670 86	468 79	92 17	139 65
November	123 00	115 00	5 00	15 25	.....	63 51	376 66	346 77	292 01	63 17
December	216 50	150 00	.....	11 00	86 00	89 50	303 85	421 93	218 78	476 05
January	224 50	119 00	.....	16 00	.....	23 25	402 00	274 90	27 40	21 50
February	170 75	155 00	4 00	.....	.....	154 36	523 10	193 90	25 59	2,031 67
March	78 00	135 00	12 00	.....	.....	115 35	1,008 67	376 65	10 50	45 80
April	80 50	61 50	11 00	2 00	14 50	39 90	365 00	118 43	.....	.....
Totals	\$ 3,721 25	\$ 1,424 50	\$ 127 00	\$ 229 25	\$ 206 00	\$ 886 38	\$ 7,883 12	\$ 7,863 93	\$ 1,414 69	\$ 4,799 72
Total receipts, \$14,191 71							Total disbursements, \$14,103 53			

Greenwood Cemetery.

	RECEIPTS					DISBURSEMENTS		
	Care	Burial	Moving Bodies	Sodding	Sundries	Lot Sales	Labor	Supplies
April	26 00	27 00	10 00	.....	.....	70 00	219 41	.....
May	132 00	24 00	23 00	14 00	4 50	289 00	412 02	.....
June	230 00	40 00	10 00	48 00	6 00	143 00	503 66	155 63
July	131 00	67 00	5 00	35 00	4 00	148 00	571 67	7 61
August	81 00	52 00	.....	5 00	1 00	106 00	601 16	8 25
September	65 00	63 00	.....	15 00	.....	140 00	583 82	15 52
October	364 00	21 00	.....	16 00	5 00	67 00	87 75	10 01
November	159 00	38 00	3 00	.....	15 00	68 00	152 61	87 09
December	85 50	80 00	.....	.....	1 00	36 00	237 82	.....
January	44 00	95 00	.....	.....	.....	34 00	41 50	7 10
February	36 00	73 00	.....	.....	3 00	65 00	90 76	.....
March	17 00	103 00	.....	.....	.....	100 00	180 22	190 00
April	7 00	34 00	.....	.....	.....	75 00	25 50	.....
Total	71 00	133 00	39 50	1,341 00	3,716 90	293 11	273 80	.....

24 000 81



Greenwood Cemetery.

	RECEIPTS						DISBURSEMENTS.			
	Care	Burial	Moving Bodies	Shedding	Sundries	Lot Sales	Labor	Supplies	Sundries	
April	\$ 26 00	\$ 27 00	\$ 10 00	.....	.....	\$ 70 00	\$ 219 41	.....	\$ 0 90
May.....	132 00	24 00	23 90	\$ 14 00	\$ 4 50	289 00	412 02	.....	7 50
June.....	220 00	40 00	10 00	48 00	6 00	143 00	503 66	\$ 155 63	10 75	
July	131 00	67 00	5 00	35 00	4 00	148 00	571 67	7 61	216 35	
August.....	81 00	62 00	.....	5 00	1 00	106 00	601 16	8 25	.....
September.....	65 00	63 00	.....	15 00	.....	140 00	583 82	15 52	8 50
October.....	364 00	21 00	.....	16 00	5 00	67 00	87 75	10 01	12 00
November.....	159 00	38 00	3 00	.....	15 00	68 00	152 61	87 09	6 90
December.....	85 50	80 00	.....	.....	1 00	36 00	237 88	.....	8 50
January	44 00	96 00	.....	.....	.....	34 00	41 50	7 10	1 40
February.....	36 00	73 00	.....	.....	3 00	65 00	90 75	.....	.....
March.....	17 00	103 00	.....	.....	.....	100 00	189 22	190 00	.....
April.....	7 00	34 00	.....	.....	.....	75 00	25 50	.....	.....
Totals.....	\$ 1,367 50	\$ 737 00	\$ 51 00	\$ 133 00	\$ 39 50	\$ 1,341 00	\$ 3,716 90	\$ 393 11	\$ 273 80	
Total receipts, \$3,758 50.						Total disbursements, \$4,282 81				
Special Improvements.....						.....	\$353 50		



City Lighting System—View of Plant Looking West.

TWENTY-SEVENTH

ANNUAL REPORT

OF THE

BOARD OF PUBLIC WORKS

TO THE COMMON COUNCIL
OF THE

CITY OF GRAND RAPIDS,

**TRANSMITTING THE REPORTS OF THE GENERAL
SUPERINTENDENT, CITY ENGINEER,
SECRETARY, AND
INSPECTOR OF WATER WASTE.**

THE FISCAL YEAR ENDING APRIL 30, 1900

**GRAND RAPIDS, MICH.:
West Michigan Printing Company.
1900.**



BOARD OF PUBLIC WORKS.

MAY 1, 1900.

DUDLEY E. WATERS, Prest.... Term expires, May, 1901
GEO. R. PERRY, MAYOR Term expires, May, 1902
WM. T. JOHNSTON..... Term expires, May, 1900
OTIS N. WATSON Term expires, May, 1900
JOSEPH EMMER..... Term expires, May, 1902
O. A. BALL Term expires, May, 1902

OFFICERS.

BERNARD MEYER..... *General Superintendent*
GEO. M. AMES..... *City Engineer*
FRED A. TWAMLEY..... *Secretary and Collector*
JOHN VAN AMBERG.. *Supt. of Repairs and Construction*
A. PER LEE..... *Inspector*

PAST AND PRESENT OFFICERS OF THE BOARD OF PUBLIC WORKS.

PRESIDENTS.

Thomas D. Gilbert April, 1873 to May, 1878.
James Miller May, 1879 to November, 1879.
George W. Thayer . . . November, 1879 to May, 1888.
George G. Briggs May, 1888 to May, 1890.
James N. Davis May, 1890 to May, 1892.
William R. Shelby . . . May, 1892 to May, 1893.
Frances Letellier May, 1893 to May, 1896.
C. G. Swensberg May, 1896 to October, 1897.
Enos Putman October, 1897 to January, 1898.
Dudley E. Waters January, 1898 to May, 1898.
William T. Johnston . . May, 1898 to May, 1899.
Dudley E. Waters May, 1899 to

SECRETARIES.

A. M. Warrell April, 1873 to August, 1875.
A. B. Farnsworth August, 1875 to February, 1878.
Fred A. Twamley February, 1878 to May, 1900.

CITY ENGINEERS.

E. W. Muencher April, 1873 to May, 1877.
A. C. Sekell May, 1877 to May, 1883.
H. A. Collar May, 1883 to October, 1896.
Geo. M. Ames (acting) . . October, 1896 to March, 1898.
Geo. M. Ames March, 1898 to May, 1900.

ENGINEERS OF PUMPING STATION.

Demetrius Turner May, 1874 to May, 1884.
Geo. E. Kirk May, 1884 to July 21, 1892.
E. A. Bates
B. Meyer.....

**SUPERINTENDENT OF PUMPING AND
LIGHTING STATIONS.**

John L. Shaw..... July, 1899 to March 18, 1900.
B. Meyer

**SUPERINTENDENTS OF REPAIRS AND
CONSTRUCTION.**

Thomas Farmer, Jr.,.. May, 1878 to May, 1880.
A. C. Sekell..... May, 1880 to May, 1883.
John Van Amberg.... May, 1883 to May, 1900.

INSPECTOR OF WATER WASTE.

A. Per Lee..... July, 1885 to May, 1900.

REPORT OF THE BOARD.

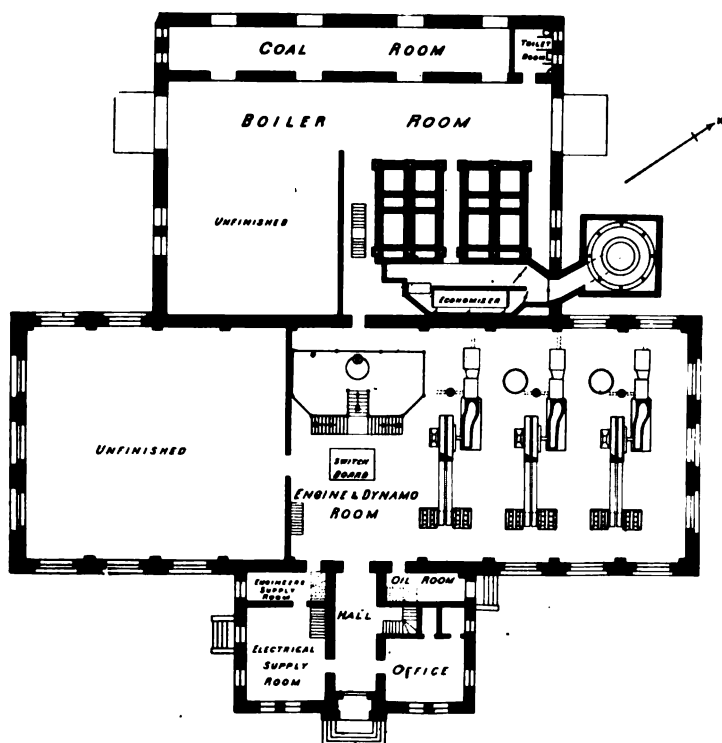
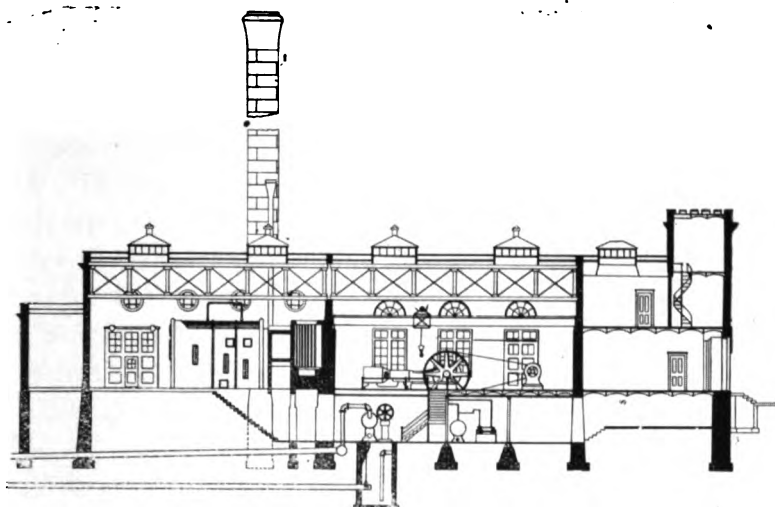
OFFICE OF THE BOARD OF PUBLIC WORKS, }
GRAND RAPIDS, MICH., May 1st, 1900. }

To the Common Council of the City of Grand Rapids:

GENTLEMEN—Herewith are transmitted the annual report of the Secretary of the Board of Public Works, the report of the City Engineer, the Superintendent of Water Works, and Inspector of Water Waste and Plumbing, which give details of the work done under the direction of the Board of Public Works during the year ending April 30, 1900.

The Municipal Electric Lighting Plant, the contracts for the construction of which was let in September, 1898, as mentioned in the Board's annual report for the year ending April 30, 1899, has been completed during the past year at a total cost of \$186,253.81 of which \$114,984.56 has been expended during the year covered by this report. The plant was forced into service in an incomplete condition on December 20, on account of the contract with the Grand Rapids Electric Light & Power Company, expiring. The plant was tested on February 3, and on February 20 Engineer Nagle reported the plant as complete and in satisfactory condition and it was formally accepted.

Between the time of starting and the acceptance, it was necessary to run the machinery in the day time and as no separate account was kept of the cost of running extra hours, it is impossible at this time, to give correct figures as to the cost per lamp per year, per night, or



City Lighting System—Plan and Section.

per hour. As will be seen in the Secretary's report, the total cost of operating the plant from the starting in December to this date 131 days, was \$8,197.81, which with 470 lamps in the circuit would amount to \$48.55 per lamp per year. This, however, as stated above, includes the cost of fuel, etc., used in running in the day time, for the purpose of testing and regulating machinery, and is not a fair basis for a calculation of the cost of operating the plant when in complete running order.

The plant is now working satisfactorily.

THE WATER WORKS.

The total income of the water works department for the past year was \$125,946.20 against \$93,632.55 for the previous year, an increase of \$32,313.65. The increase was due more to the adoption of improved methods in keeping the accounts and making collections, than to the increased number of consumers. A new system of bookkeeping has been inaugurated, which has resulted in the payment of rates more promptly than heretofore and has reduced the amount carried in delinquent bills. It is proposed to introduce more improvements, intended to place the department on a more systematic basis, during the coming year.

Reference to the Secretary's report will show that the cost of maintaining and operating the water works system for the year was \$48,653.01. The interest charges on the water works bonds with exchange amounts to \$39,261.96 per annum, making the total for maintenance, operation and interest \$87,915.03. The surplus income was expended in the extension and relaying of water mains and in the purchase and setting of water meters. Much more could be profitably expended in these lines, but it has not been deemed expedient to

ask the Council to issue bonds or levy a tax for these purposes. It is deemed advisable to increase the number of meters as rapidly as possible, because it has been found impracticable to stop waste and leakage by other means and schedule rates cannot be arranged to be just to all consumers. The meters do not increase the amount paid by all consumers. Many pay less than they did at the schedule rate, and the aggregate receipts from metered water may be little more than was received from scheduled rates for the same consumers, but it is certain that they effect a decrease in the waste. That there is enormous waste, is apparent from a comparison of the amount of water pumped with the receipts and the number of consumers. The receipts are lower in proportion to the water pumped than in any city with which we exchange reports.

A million gallons of water at $3\frac{1}{2}$ cents per hundred cubic feet, which is the present minimum meter rate, is worth \$46.67. To pump an average of twelve million gallons of water per day and sell it at the lowest metered rate would make the gross income \$204,400 per year.

The difference between the amount of water pumped and the amount paid for is not all charged to waste, however. A large part of it goes to public school buildings for which the department receives less than the minimum rate; to parks, cemeteries and over thirteen hundred fire hydrants for which the water works department receives no compensation. Estimating the plant at \$1,200,000.00; the cost of maintenance and operation at \$50,000.00; interest at 5 per cent. \$60,000.00; taxes at the rate of $1\frac{1}{2}$ per cent. \$18,000.00; and depreciation at 5 per cent. \$60,000.00 will show that the income must be increased to \$186,653.00 before the depart-

ment can be considered as permanently self-sustaining. If the rate of increase made during the past year can be maintained for two years, the income will be over \$190,000.00, and it is believed that it can be done if the department can obtain a fair compensation for water furnished for schools, parks, cemeteries, and fire hydrants.

Respectfully submitted,

DUDLEY E. WATERS, President,

WM. T. JOHNSTON,

OTIS N. WATSON,

JOSEPH EMMER,

O. A. BALL,

GEO. R. PERRY, Mayor,

Board of Public Works.

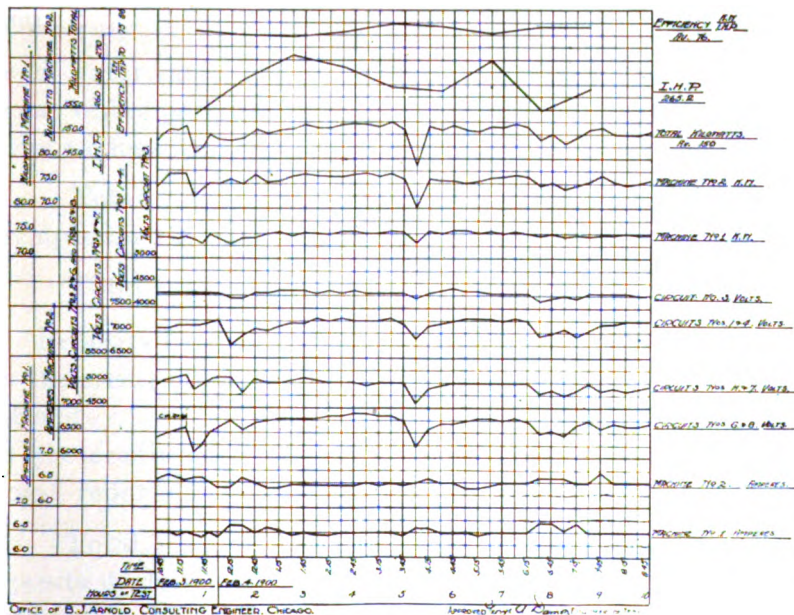
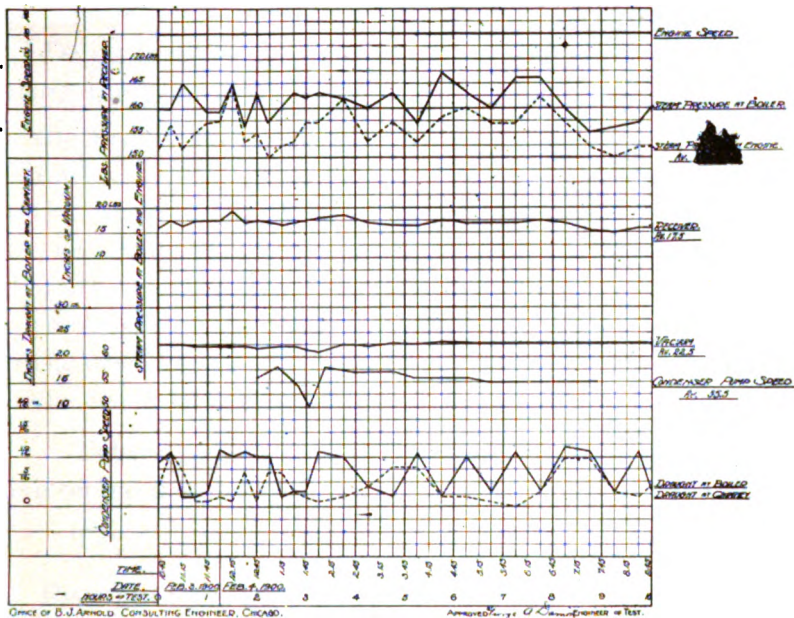
SECRETARY'S REPORT.

OFFICE OF THE BOARD OF PUBLIC WORKS, }
GRAND RAPIDS, MICH., May 1st, 1900. }

To the Honorable the Board of Public Works:

GENTLEMEN—I respectfully submit to your Honorable Body the following report for the year ending April 30th, 1900:

The number of services connected with the City's works on the 1st of May, 1899, for which permits were issued	9,801
Number of services put in during the past year, for all of which permits were issued	799
Total.....	10,600
Number of special connections existing May 1st, 1899.....	60
Total number of connections existing May 1, 1900	10,660
Number of services to curb only or cut off.....	1,759
Number of services now open.....	8,901
The receipts of the year have been as follows :	
From water rates.....	\$ 120,566.35
From water permits.....	1,950.00
Total income of water works.....	\$ 122,516.35
Miscellaneous receipts	3,429.85
Total for the year.....	\$ 125,946.20
Cash on hand May 1st, 1899.....	1,310.84
Total.....	\$ 127,257.04



City Lighting System—Diagram of Test of Plant.

Deposits have been made with the City Treasurer during the year as follows :

To the credit of the Water Works Income Fund	\$ 124,070.72
To the credit of the Water Works Fund ...	2,526.67
To the credit of 1st, 2d, 3d District Sewer Funds	160.00
To the credit of the Bridge Fund	36.38
To the credit of the Electric Light Fund...	4.48
To the credit of the Road Roller Fund	1.25
Total deposits during the year.....	\$ 126,799.50
Cash on hand to balance.....	457.54
Total.....	\$ 127,257.04

Receipts from May 1st, 1874, the commencement of the collections, to May 1st, 1899 :

From water rates, etc.....	\$ 1,025,872.82
From water permits.....	29,334.98
From various sources (per past reports) ..	44,236.99
Total.....	\$ 1,099,444.79
Receipts for the past year.....	125,946.20
Total receipts to date.....	\$ 1,225,390.99

Deposits from May 1st, 1874, to May 1st, 1899 :

To the credit of the Water Works Income Fund	\$ 1,065,076.84
To the credit of the various funds (per past reports).....	33,057.11
Total.....	\$ 1,098,133.95
Deposits made the past year.....	126,799.50
Cash on hand to balance.....	457.54
Total.....	\$ 1,225,390.99

STATEMENT OF EXPENDITURES.

May 1st, 1899 to May 1st, 1900.

CONSTRUCTION OF WATER WORKS.

1. -PIPE SYSTEM.

Extension and relaying of mains\$ 34,927 32

2 -NEW WATER SUPPLY.

Filter tests, etc..... 191 90

3.- PUMPING STATION.

New lighting 16 46

4.- METERS.

New meters and setting..... 11,202 60

Total.....\$ 46,338 28

Paid previous to May 1st, 1899 ... 1,385,748 95

Cost of works to date.....\$ 1,432,087 23

The total bonded indebtedness of the
water works is..... \$ 855,000 00

MAINTENANCE AND OPERATION OF WATER WORKS.

1.-PUMPING.

Salary of engineer and superintendent of
pumping station.....\$ 1,250 02

Salary three assistant engineers..... 2,896 35

Salary three firemen, one wiper, two coal
passers, one oiler and one boiler cleaner 4,139 99

Additional help 84 60

Fuel.....	20,874 16
Repairs to pumping machinery, boilers, etc.	1,939 20
Repairs to pumping station and shed.....	877 36
Supplies.....	1,162 01
Telephone rent	14 26
Insurance.....	125 00
Taxes	
Livery	3 00
Total.....	\$ 33,365 95

2.—OFFICE AND COLLECTION.

One-fourth salary Secretary	\$ 375 00
Salary Deputy Secretary.....	900 00
Salary of bookkeeper	680 00
Salary of cashier	687 50
Extra clerk hire	94 50
Books, stationery and printing	1,115 79
Stamps and postals.....	173 74
Refurnishing office	293 37
Incidentals	295 62
Return water rates and fines	61 49
Total.....	\$ 4,677 01

3.—REPAIRS AND INSPECTION.

Salary of superintendent.....	\$ 1,650 00
Salary of three inspectors and collector.....	2,337 00
Water mains.....	504 43
Reservoir	75
Hydrants	913 74
Sprinkling hydrants.....	17 30
Valves.....	112 00
Meters	853 46
Services.....	3,038 00
Tools and supplies	585 58
Stable	477 59
Telephone at shop and residence.....	50 26
Street car tickets.....	70 00
Total.....	\$ 10,610 11

RECAPITULATION.

Pumping	\$ 33,365 95
Office and collecting	4,677 01
Repairs and inspection	10,610 11

Total paid for maintenance and operation.....\$ 48,653 07

Paid for maintenance previous to May 1st, 1899.....	\$ 583,994.05
Paid during past year.....	48,653.07

Total paid for maintenance and operation to date.. \$ 632,647.12

Interest paid on water loan.....\$ 39,125.00

Of the 639 meters last reported, 41 of them have been found unfit for further service and are not accounted for. The balance with the 695 meters received during the year makes 1293 meters owned by the city as follows :

NAMES OF METERS	RUNNING	IN SHOP	TOTAL
Crown.....	439	59	498
Nash.....	168	6	174
Empire	143	8	151
Gems.....	18	.....	18
Worthington.....	333	15	347
Union (rotary).....	16	.....	16
Union (duplex).....	18	.....	18
Columbia	2	4	6
Hersey	38	1	39
Thompson	2	2	4
Limberty.....	15	.....	15
Westinghouse.....	1	.....	1
Trident	1	5	6
Totals.....	1193	100	1293

Three hundred and eighty-one permits to connect with public sewers were issued during the year.

Expenditures have been made on the construction of the Lighting Plant as follows:

	May 1, 1899 to May 1, 1900	Totals to May 1, 1900
General construction.....	\$ 60,378 68	\$ -97,749 38
Station and superstructure	33,498 98	37,498 98
Towers.....		16,000 00
Station foundation	3,079 40	8,312 80
Piping and auxiliary machinery.....	8,091 90	8,091 90
Extra dynamo.....	2,758 78	2,758 78
Traveling crane	1,770 00	1,770 00
Filling grounds.....	330 70	472 80
Roadway.....	181 17	342 50
Engineering and superintendence.....	1,469 78	6,434 31
Inspection	1,199 88	1,453 26
Office expense	312 50	312 50
Miscellaneous	1,919 79	2,518 05
Interest.		2,408 75
Total May 1, 1899 to May 1, 1900.....	\$ 114,984 56	.....
Paid previous to May 1, 1899.....	71,269 25	.....
Grand total.....	\$ 186,253 81	\$ 186,253 81

The cost of operating the Lighting Plant from Dec. 20, 1899 (when the lighting of the city was started) to May 1, 1900 was \$8,197,81.

Respectfully submitted,

FRED A. TWAMLEY,

Secretary.

REPORT OF INSPECTOR.

GRAND RAPIDS, MICH., May 25, 1900.

To the Honorable Board of Public Works:

GENTLEMEN—I respectfully submit the following report of the work done in the water department of Inspection for the year ending April 30, 1900.

The fact of many services having been metered during the past year, the work of inspection has verged into different and more varied channels than in previous years.

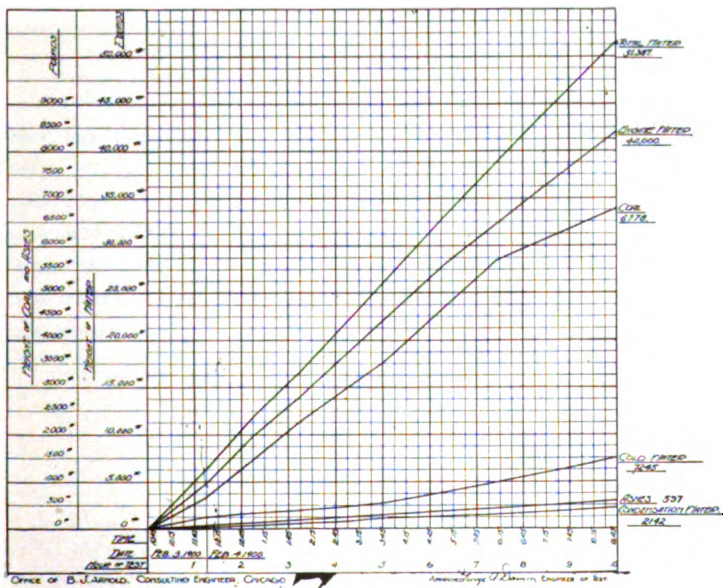
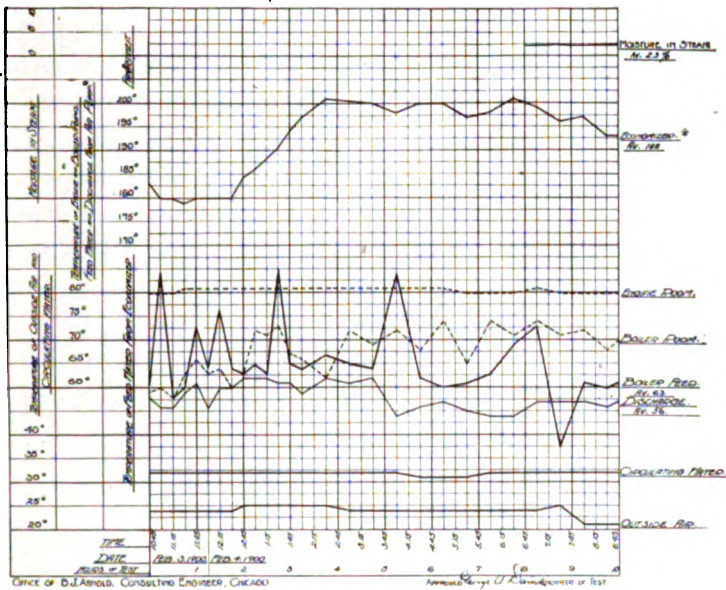
Total number of premises supplied with city water (not metered) 9,047.

Total number of fixtures, 25,660, as follows:

Baths.....	1,917
Water closets.	6,587
Wash basins.....	1,868
Sink faucets.....	3,267
Urinals.....	53
Hydrants and sillcocks.....	10,683
Hydraulic pumps.....	317
Miscellaneous.....	698

During the year we have made 11,652 inspections with the following results:

Number of leaks discovered.....	1,095
Number of notices to water consumers.....	697
Number of notices to plumbers and drain layers..	184
Number of services shut off.....	434
Number of services turned on.....	225



City Lighting System—Diagram of Test of Plant.

Notices to put in water connections where streets were being improved.....	248
Notices to put in sewer connections where streets were being improved... ..	111
Miscellaneous notices.....	434
Number of permits for hopper closets (granted)..	317
Number of permits for hopper closets (denied)...	18
Number of sewer connections made where no Y's existed in the main sewer.....	37
Collection of delinquent water rates.....	\$10,108 28

The following table shows the number, kind and location of water fixtures:

WARDS	Baths	Closets	Basins	Sinks	Urinals	Hydrants	Hose Attachments	Hydraulic Pumps	Miscellaneous	Totals
First and Twelfth.....	190	508	94	249	1	758	337	2	36	2165
Second, Fourth and Fifth	455	1300	416	378	8	1354	956	92	141	5830
Third.....	476	1656	506	788	4	701	999	135	215	5479
Sixth and Seventh.....	174	1046	150	336	0	1158	650	18	45	3.67
Eighth and Ninth... ..	126	413	124	213	0	633	401	7	33	1950
Tenth and Eleventh.....	557	1736	487	706	0	1106	1359	63	156	6170
Engine Houses... ..	9	13	9	12	9	4	19	0	11	86
School Houses.....	0	65	83	95	31	43	35	0	61	217
Grand total.....										25660

Respectfully submitted,

A. PER LEE.

Inspector.

REPORT OF SUPERINTENDENT OF PUMPING STATION.

OFFICE OF PUMPING STATION, }
GRAND RAPIDS, MICH., May 1, 1900. }

To the Honorable Board of Public Works:

GENTLEMEN—I have the honor to submit the Superintendent's report for the year ending April 30, 1900:

The following table show the number gallons of water pumped and the amount of coal consumed.

Coal consumed for pumping, raising steam, heating building and running electric light engine.

The average daily consumption of water has been 13,693,499 gallons as against 14,730,860 for 1899.

Respectfully submitted,

B. MEYER,

General Superintendent.

NOTE—The figures found in the table were taken from the pump house register.

ANNUAL REPORT OF PUMPING HOUSE, YEAR ENDING APRIL 30, 1900.

MONTH	No. Days	Average Gallons per day	No. of Gallons Pumped per month	Average lbs. of Coal con- sumed per day	Total lbs. of Coal con- sumed per month
May	31	13,312,753	412,695,358	37,854	1,173,500
June	30	15,820,943	474,628,277	36,658	1,099,750
July	31	15,137,539	469,263,713	33,564	1,040,500
August.....	31	17,574,283	544,802,761	38,944	1,207,280
September ..	30	14,611,079	438,350,361	36,042	1,081,276
October	31	13,584,334	419,564,369	38,851	1,198,896
November	30	12,067,809	380,084,965	37,391	1,121,720
December.....	31	11,265,413	349,227,705	41,084	1,273,600
January... ..	31	10,465,721	324,437,377	38,544	1,194,870
February	28	14,788,729	414,084,439	36,942	1,034,383
March.....	31	14,207,368	440,433,334	37,790	1,171,500
April	30	11,536,121	346,143,630	25,938	778,130
Totals.....	365	164,321,992	5,013,655,672	439,602	13,375,405

Average Gallons Pumped per month.....	417,805,473
Average lbs of Coal Consumed per month.. ..	1,114,617
Average lbs. of Coal Consumed per day .	36,633
Average Gallons Pumped per day	13,693,493

REPORT OF CITY ENGINEER.

GRAND RAPIDS, MICH., May 1, 1900.

To the Honorable Board of Public Works:

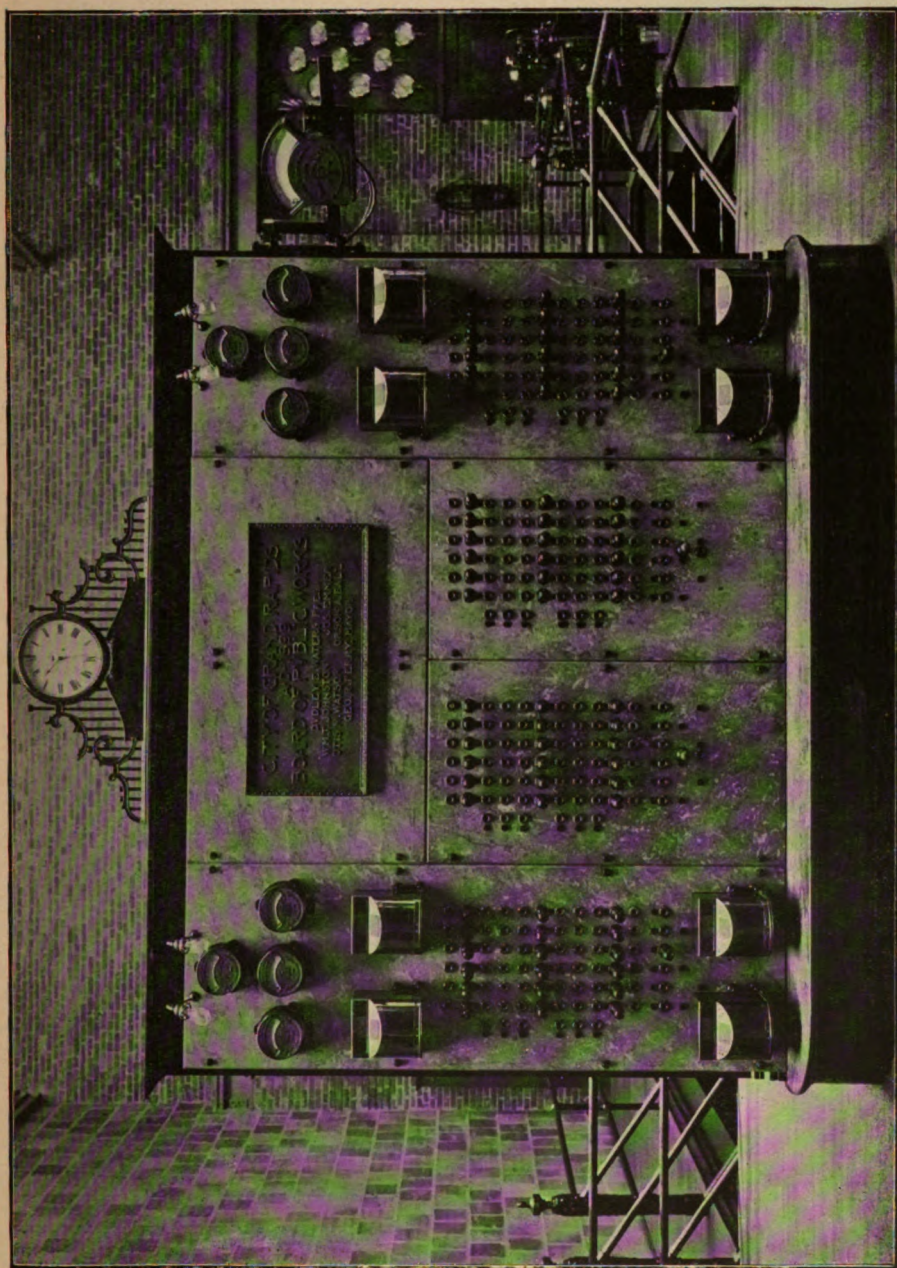
GENTLEMEN—Herewith is presented the twenty-seventh annual report of the work done by the Engineering Department during the fiscal year ending April 30, 1900.

STREETS.

Profiles have been made of 1.20 miles of streets and alleys upon which grade lines have been established by your Honorable Body. The names, termini and length of streets and alleys are given in the following table:

GRADE LINES ESTABLISHED DURING THE YEAR.

STREET	EXTENT	LENGTH IN FEET
LaBelle Avenue.....	S. Division to Jefferson Ave.....	922
Highland Avenue.....	S. Division to Central Ave.....	400
Sweet.....	Plainfield to N. Colt Aves.....	640
Robey.....	Wealthy Ave., to the north.....	632
Third Avenue arm.....	Buchanan to Third Ave.....	101
Steele Avenue.....	Stevens to S. line of Weston & Meig's add. . . .	561
Tolford.....	Butterworth Ave. to Earle . . .	430
Sibley	Richards to Garfield Avenues	732
E Fulton Alley, 2d N. . .	Prospect to Prospect Alley.....	170
N. Prospect Alley	1st to 2d E, Fulton Alleys, north.	219
Donald.. . . .	Wealthy Ave., to the north	634
Prospect Alley.....	E. Bridge Alley to Crescent Ave	280
E. Bridge Alley.....	Lafayette to E. Line of Kendall's 2d add.....	625



City Lighting System—Switch-board at Station.

Grade lines have been re-established by your Honorable Body upon the following streets:

GRADE LINES RE-ESTABLISHED DURING THE YEAR.

STREET	EXTENT	LENGTH IN FEET
Turner..	W. Leonard to Myrtle.....	2565
Valley Avenue	Butterworth to Park Avenues.....	896
Carrier	Plainfield Ave. to N. Union.....	3224
Crawford	Madison Ave to Valley City Cemetery.....	992
Dickinson Avenue	Madison to Jefferson Aves.....	1327
Valley Avenue..	Watson to W. Fulton.....	627
Dunham	S. Fuller to Dolbee	1618
S. Fuller.....	Sherman to Thomas.....	608
S. Front.....	W. Fulton to Shawmut Ave.....	9.0
Fourth.....	Stocking to Seward	1240
Finney.....	Market to Williams.....	331
Woodmere Court.....	Wealthy to Robinson Aves.....	804
Wealthy Avenue.....	Ellsworth Ave to S. Ionia	770
Brown Avenue.....	S. Division to Buchanan	1250
Garden	Madison to Jefferson Aves.	1208

A total of 18,200 feet, or 3.45 miles.

Grade lines are now established on 270.04 miles of the streets of the city.

The total length of streets in the city is 283.74 miles, of which 158.22 miles are improved, and 125.52 miles are unimproved.

Contracts have been awarded for the improvement of streets to the extent of 6.08 miles, and for the re-improvement of 3.70 miles, during the year.

In connection with this work, 263 catch basins, 13 intake basins and 44 manholes will be required.

The total cost of the above mentioned work will be \$187,325.00, as shown in the following tables:

WORK LEFT OVER FROM 1898, COMPLETED IN 1899. BRICK PAVING ON CONCRETE FOUNDATION.

STREETS	EXTENT	DIMENSIONS			COST		Amount Paid on Contract	CONTRACTORS
		Width of Road-way	Length of Street	Length of Curb	No. of Square Yards	Contract Price	Amount of Roll	
Ottawa..	Fairbanks to Coldbrook	46	2,547	4,923	13,297	\$22,179 00	\$23,200 00	James McDermott.
E. Fulton	Division to Commerce	38	285	363	1,427	2,144 00	2,250 00	Harry Vander Veen.

GRADED, GRAVELED, AND GUTTERS PAVED WITH BRICK.

N. Union	E. Bridge to D. G. H. & M. R. R.	26	893	1,706	..	\$ 2,450 00	\$ 2,700 00	Mathewson & Kloote.
Hermitege... ..	S. Diamond to S. Fuller.	30	1,244	2,545	....	4,015 00	4,900 00	Mathewson & Kloote
Robinson Ave.	Lake Ave. to e city limits.	30	1,384	2,724	....	5,065 00	5,900 00	Mathewson & Kloote.
Grove (now Coade Ave.)	S. Diamond to S. Fuller.	30	1,245	3,171	....	3,945 00	4,200 00	Mathewson & Kloote.
Barth.....	Wealthy Ave. to Logan	26	609	1,141	....	1,474 00	1,700 00	Mathewson & Kloote.
Jackson..	Valley Ave. to West Side ditch.	36	336	680	..	1,000 00	1,300 00	John Powers.
Lyon	N. Union to Houseman.....	34 } 30	1,797	3,601	..	7,233 00	7,550 00	Albert Prange.
Grand Ave	Fountain to 180 ft. n. of Lyon	32 } 30	978	1,976	....	3,797 00	4,000 00	Rens & Hoogendyk.
Oakes ...	Ellsworth Ave. to S. Waterloo	36 } 36	312	633	....	999 00	1,150 00	Jas. B. Hooy.
Cherry.....	Ellsworth Ave. to S. Ottawa.....	.....	379	521	..	1,024 00	1,200 00	L. C. Schneider.
Ives Ave.	Butterworth Ave. to Park Ave	25 1/2	724	1,463	....	1,900 00	2,000 00	Sullivan & Higgins.

Livingston.....	E. Bridge to Newberry..	30	2 200	4,455	.....	8 000 00	8,300 00	.....	Miller & Gilner.
Colt Ave.	E. Bridge and Fairbanks..	30	1,132	3,380	.. ..	5,200 00	5,500 00	.....	Pickett & Cowans.
Worden	Madison Ave. to S. Union..	30	1 250	2,570	.....	4 444 00	4,700 00	.....	Harry Vander Veen.
Thompson Court..	Fifth Ave. to Sycamore.....	16	463	954	.....	1,088 00	1,200 00	.....	Harry Vander Veen
Caulfield Ave . .	Hall to n end of street.....	30	1 571	3 922	.. ..	5,469 00	5,800 00	.....	Albert Prange.
Jefferson Ave.....	Hall to Burton Ave.....	30	5,625	3 341	.....	13,378 40	13 800 00	.....	Chas. E. Williams.
Crematory r'dway	Market Site to Crematory.....	.....	500	.....	.....	1,999 00	.....	.....	Albert Prange.

**Contracts Awarded in March and April, 1899, and Completed During the Season.
BRICK PAVING, ON CONCRETE FOUNDATION.**

STREET	EXTENT	DIMENSIONS				COST		Amount Paid on Contract	CONTRACTORS
		Width of Road-way	Length of Street	Length of Curb	No. of Square Yards	Contract Price	Amount of Roll		
Ottawa	E. Bridge to Fairbanks.....	46	1,767	3,119	8,615	\$16 600 00	\$17,300 00	.....	James McDermott.

GRADED, GRAVELED, AND GUTTERS PAVED WITH BRICK.

S. Fuller.....	Lake to Wealthy Avenues.....	30	981	2,013	.....	\$ 3,645 00	\$ 3,850 00	.....	Mathewson & Kloote.
Prince	Madison Ave. to S. Union.	30	1,250	2,568	.....	4,568 00	4,800 00	.....	Harry Vander Veen....
Haffley Place	S. Division to Jefferson Ave.....	16	892	1,672	.....	2,280 00	2,430 00	.....	Charles Connell
Spencer Ave. ..	Plainfield to North Aves	30	1,387	2,770	.....	4,712 00	5,000 00	.....	Chas. E. Williams.
Marion	Butterworth Ave. to L.S. & M.S.R.R.	30	493	...	.....	1,962 00	2,090 00	.....	.....

**WORK LET, FROM MAY 1, 1899 TO MAY 1, 1900.
GRADED AND PAVED WITH SHEET ASPHALT PAVEMENT.**

STREET	EXTENT	DIMENSIONS			COST		CONTRACTORS
		Width of Road-way	Length of Street	No. of Sq. Yards	Con- tract Price	Amount of Roll	
Ottawa	Lyon to E. Bridge.....	38	1,126	3,950	\$ 7,966 45	\$ 7,900 00	Ayer's Asphalt Paving Co. Warren-Scharf Asph Pvg Co.
N. Prospect.....	E. Fulton to Fountain.....	30	756	1,960	6,655 00	6,900 00	

BRICK PAVING, ON CONCRETE FOUNDATION, NOT COMPLETED.

Campau.....	Louis to E. Fulton	48	819	1,534	4,030	\$11,300 00	\$ 4,886 00	Sullivan & Higgins.
Cherry.....	S. Ionis to S. Ottawa .....	..	510	..	2,215	4,420 00	4,700 00	Albert Prange.

MACADAMIZED.

E. Fulton	Jefferson Ave to Union.....	30	2,564	5,104	..	\$10,800 00	\$11,400 00	Mathewson & Kloote.
S. College Ave.....	E. Fulton to Cherry	30	1,258	2,433	..	4,771 00	5,100 00	Albert Prange.

NOT COMPLETED.

S. College Ave.....	E. Fulton to Cherry.....	..	..	..	..	..	..	Albert Prange.
Turner	W. Bridge to Seventh	36	2,600	5,150	..	11,323 25	11,690 00	James McDermott.
Turner	Seventh to North	36	5,202	10,134	..	22,634 00	23,500 00	James McDermott.

GRADED, GRAVELED AND GUTTERS PAVED WITH BRICK.

STREET	EXTENT	DIMENSIONS			COST		Amount Paid on Contract	CONTRACTORS
		Width of Road-way	Length of Street	Length of Curb	No. of Square Yards	Contract Price	Amount of Roll	
Thomas	Madison Ave. to S. Union	30	1,348	2,554	..	\$ 3,938 00	\$ 4,100 00	Harry Vander Veen.
Highland Ave. ...	S. Division to Central Ave.	27	400	967	.....	1,318 68	1,450 00	Luten & Luten.
Home Ave	S. Division to Jefferson Ave.	30	919	1,885	.....	2,514 30	3,550 00	Miller & Gilner.
Fair	S. Division to Jefferson Ave.	30	923	1,986	.....	3,345 00	3,595 00	Miller & Gilner.
Crescent Ave. and Hostwick.	At Crescent Park	$\begin{Bmatrix} 32 \\ 36 \\ 38 \end{Bmatrix}$	1,027	1,084	.....	3,790 00	4,000 00	F. Stevens.
Crawford	Madison Ave. to V. C. Cem'y ..	30	963	2,025	.....	2,747 00	2,930 00	Harry Vander Veen.

NOT COMPLETED.

Fitzhugh.	Lake Ave. to Hermitage	30	705	1,412	.....	2,674 00	2,980 00	Mathewson & Kloote.
Palmer Ave.	Canal to Plainfield Ave.	30	2,713	5,368	.....	9,500 00	10,000 00	Chas. E. Williams.
Grandville Ave. ..	Hall to Clyde Park Ave.	42	2,525	4,606	.....	9,950 00	10,500 00	Rens & Hoogendyk.
*Watson	Lane Ave. to John Ball Park ...	34	2,613	.....	.....	6,800 00	7,000 00	John Powers.
LaBelle Ave.	S. Division to S. Ionla.	30	595	1,321	.....	1,863 55	1,990 00	Connell & Barrett.
Rose	S. Division to Buchanan	30	1,250	2,494	.....	3,707 64	3,900 00	Connell & Barrett.
Stewart Ave	S. Division to Buchanan	30	1,249	2,494	.....	3,790 00	4,000 00	F. W. Stevens.
Elm Ave	S. Division to Buchanan	26	1,250	2,519	.....	3,728 00	3,920 00	L. C. Schneider.
*Dickinson Ave. ...	Madison to Jefferson Aves. . .	30	1,224	28	.....	1,980 00	2,150 00	Albert Prange.

Robey.....	24	633	1,300	.....	1,900 00	2,200 00	1,743 00	H. Vander Veen.
Travis Ave.....	30	2,158	4,375	.....	7,200 00	7,600 00	1,700 00	C. E. Williams.
†Tamarack.....	34	1,578	.....	.....	3,399 00	3,600 00	2,608 90	Jas. B. Hoey.
Steele Ave.....	32	1,069	2,112	.....	4,183 00	4,500 00	1,870 00	A. Prange.
†Tenth.....	30	1,577	3,065	.....	4,349 00	4,600 00	3,059 50	Jas. B. Hoey.
Third Ave., arm..	30	100	312	.....	530 00	600 00	400 00	Chas. Connell.
Mills	30	592	1,168	.....	3,505 00	3,810 00	1,827 50	Luten & Luten.
Godfrey Ave	42	640	1,235	.....	2,940 00	3,150 00	.. .....	H. Vander Veen.
Cherry.....	.....	382	1,140	.....	2,521 90	2,710 00	.....	A. Prange.
*Sibley.....	30	337	.....	.....	1,557 00	1,680 00	637 50	Jas. McDermott.
*Garden	30	1,204	.....	.....	1,485 00	1,600 00	.....	H. Vander Veen.
Sweet.....	30	640	1,618	.....	2,025 00	2,240 00	.....	L. C. Schneider.

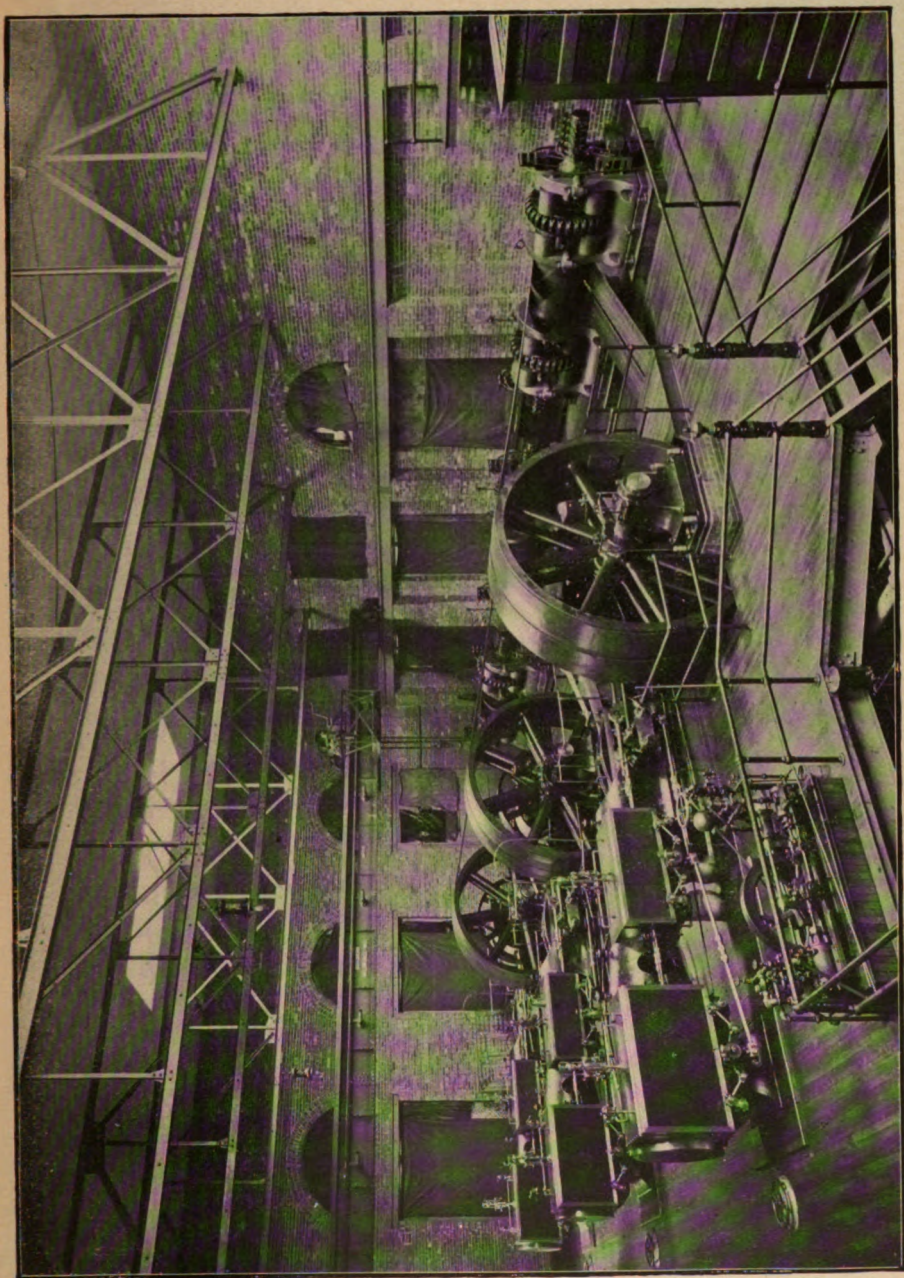
*Graded and graveled. †Graded, graveled, and gutters paved with cobble stones.

Valley Avenue, from W. Fulton St. to Butterworth Ave., is being improved by private parties.

MILEAGE OF STREETS.

The mileage of streets in the city, and the length of each class of improvement, is shown in the following table:

Graded, and paved with asphalt	5.959
Graded, and paved with brick on concrete	4.113
Graded, and macadamized	3.461
Graded, and paved with tar concrete .....	.282
Graded, and paved with cedar blocks on concrete	6.254
Graded, and paved with cedar blocks on plank..	.528
Graded, and paved with cedar blocks on gravel .	3.388
Graded, and paved with cedar blocks on cobble stones	1.838
Graded, and paved with cobble stone on gravel..	.755
Graded, graveled, and gutters paved with cobble stone	87.987
Graded, graveled, and gutters paved with brick.	12.604
Graded and graveled.....	31.056
Unimproved	125.520
Total	283.745



City Lighting System—Engines and Dynamos—View Looking North.

ROAD ROLLERS.

Rolling with the steam rollers began April 20, 1899, and continued as long as the weather would permit,—the rollers being housed for the winter December 4, 1899.

The cost of maintenance and operation of the different rollers is given as follows:

HARRISBURG ROLLER.

For repairs, supplies, etc., for the season.....	\$ 389 86
For fuel and kindlings	445 76
For engineers' salaries.....	930 03
Total for the season.....	\$1,765 65

RUSSELL ROLLER.

For repairs, supplies, etc.....	\$ 140 99
For fuel and kindlings	558 21
For engineers' salaries	812 64
Total for the season	\$1,411 84

KELLY ROLLER.

For repairs, supplies, etc.....	\$ 229 45
For fuel and kindlings	387 77
For engineers' salaries.....	740 86
Total for the season.....	\$1,358 08

Through all the long days the rollers were run all daylight hours, and in the fall they were run all night,

by which means all work not completed was left in passable condition for the winter.

A new roller, called "The Heisler Universal", has been purchased and it is hoped will soon be put in commission. It is a roller of the tandem type, with rolls four feet wide and four feet in diameter. Its weight will be about seven tons, empty, and can be loaded to eight tons or more. This roller, it is hoped, will prove a valuable addition to the city's rollers, taking the place of the horse roller and doing much more work.

The use of steam road rollers seems to be thoroughly appreciated. Fully double as much rolling was done last year as in any preceding year, and had the days been longer, or had the city owned more rollers, much more work would have been done.

SEWERS.

Mention was made in the last annual report of the sewers discharging at the bank of the river, which, during the low water period, has scarcely enough water from the dam to Pearl street bridge to cover its bed, and from which foul odors fill the air, causing much complaint from people obliged to work or live in that locality.

Surveys have been made with a view to determining the easiest and most efficient way to abate the nuisance. This work should be carefully studied, and steps taken to avoid a repetition of the heretofore annual complaints.

The table following gives the location, kind and cost of the sewers constructed during the year. In connection with this work fourteen catch-basins and ninety-four manholes were constructed. The total cost, as shown by the table, was \$18,805.00.

SEWERS CONSTRUCTED DURING THE FISCAL YEAR ENDING APRIL 30, 1900.

STREET	EXTENT	KINDS			Catch Basins	COST		CONTRACTORS
		Inches	Length	Manholes		Contract Price	Amount of Roll	
Taylor.....	Celfax to Sweet.	18	485	2	.....	.....
Sweet.....	Taylor to Queen.	{ 15 9	{ 348 337	3	.....	.....
Center.	Sweet to Ann	{ 15 12	{ 678 661	5	.....	.....
Dale Ave.	Center to N. Colt Ave.....	9	619	3	\$ 4,200 00	\$ 4,800 00	Chas. E. Williams.	
Travis Ave	347 ft. w of Center to N. Colt Ave.	9	975	4	.....	.....
Palmer Ave.....	349 ft. w of Center to N. Colt Ave.	9	977	4	.....	.....
Ann	Center to N. Colt Ave	9	665	3	.....	.....
Robey	Wealthy Ave. north.....	9	628	3	380 00	460 00	Harry Vander Veen.	
Marion	Butterworth Ave. to L. S. R'y.....	9	450	3	228 00	330 00	Albert Frange.	
Marion	Chatham to W. Bridge	9	500	3	330 00	400 00	John Van Ess.	
Halfey Place ...	S. Division to 76 ft e of Cornwall Ave.....	9	233	2	219 00	280 00	Chas. Connell.	
Ottawa	Lyon to E. Bridge.	12	926	6	1,040 00	1,120 00	Chas. Connell.	
E. Fulton	Barclay to Lafayette	12	518	3	745 00	870 00	Joseph Owens.	
N. Ionia Alley...	Fairbanks to Trowbridge.....	9	464	3	348 50	420 00	John Van Ess	
Twelfth Ave.....	Buchanan to S. Ionia	9	542	3 2	539 50	620 00	John Van Ess.	
Barker Place ...	W. Bridge to First	9	290	3	385 00	380 00	Joseph Owens.	
Terrace Ave	Logan, north	9	347	3	460 00	565 00	Henry Miller.	

N. Pine	W. Bridge to First.....	9	275 ..	3	..	323 00	470 00	John Van Ess.
Chestnut	Grandville to Oakland Aves	9	471	3	2	568 00	710 00	Joseph Owens.
Travis Ave.....	N. Colt to Watrous Aves.....	9	567	3	..	400 00	500 00	*Miller & Gliner.
Campau.	Louis to E. Fulton.....	12	907	5	..	1,495 00	1,750 00	Van Ess & Vanden Boogert.
Grand Ave.....	Lyon to Crescent Ave.....	8	517	2	..	..	..	{ John Van Ess.
Lyon.....	Grand Ave to Antisdel Court.....	8	1024	3	..	794 00	870 00	{ John Van Ess.
Myrtle.....	Broadway to Hamilton	24	312	2	..	..	..	{ John Van Fsa.
Hamilton.....	Myrtle to North.....	15	607	6	8	2,300 00	2,350 00	{ John Van Fsa.
Colfax.....	Queen to N. Colt Ave	12	527	2	..	..	..	{ John Van Fsa.
N. Colt Ave.....	Quimby to Colfax.....	9	523	1	3	746 00	860 00	{ John Van Fsa.
Diamond	Wealthy Ave. to Buckeye.....	12	485	4	..	..	..	{ Mathewson & Kloote
Fisher.....	Diamond to Eureka Ave.	9	309	5	..	786 00	950 00	{ Mathewson & Kloote
		8	375	..	..	..	..
			477	..	..	..	..
			957	..	..	..	..

*To replace an old, shallow brick sewer. †Final account not yet allowed.

The foregoing work increases the sewer system of the city 3.43 miles.

The length of sewers in the city are as follows:

Combined system.....105.036

Separate system, { Sanitary 11.167
 { Storm 7.996

Composed of the following:

Brick 23.408

Vitrified pipe.....100.307

Cement pipe..... .100

Wrought iron pipe..... .160

Cast iron pipe..... .224

Total.....124.199

In connection with this system there are 2,156 manholes and 3,419 catch-basins.

BRIDGE WORK.

The bridge work of the season consisted of replanking Bridge street and Pearl street bridges.

The total cost of the lumber purchased for

this purpose was\$ 1,277 80

For inspection of lumber 19 75

ON BRIDGE STREET BRIDGE:

For labor\$ 111 48

For cartage..... 5 95

For spikes, supplies, etc 41 44

\$ 158 87

ON PEARL STREET BRIDGE:

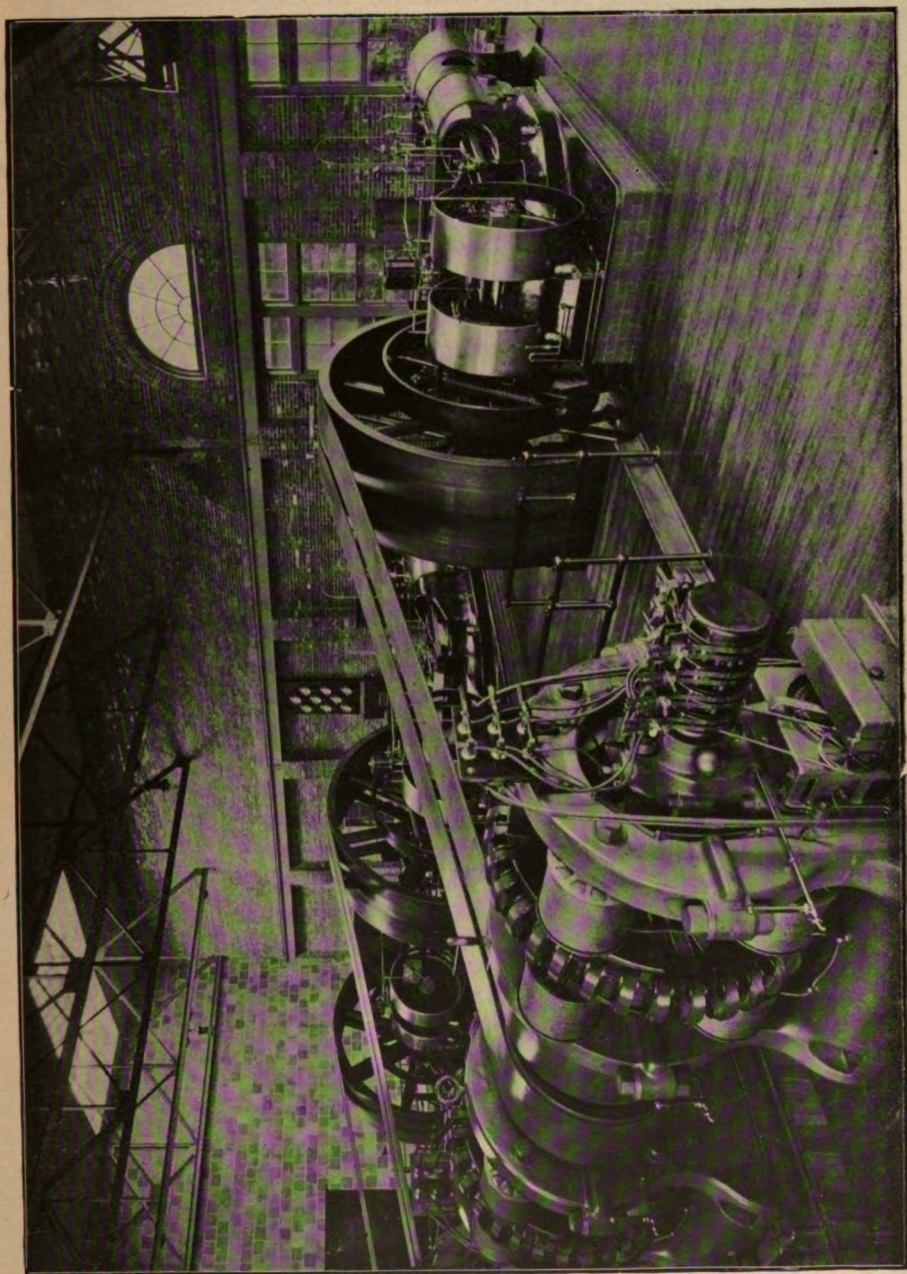
For labor\$ 195 65

For cartage..... 8 58

For spikes, supplies, etc..... 35 20

\$ 239 43

Total..... \$ 1,695 85



City Lighting System.—Engines and Dynamos—View Looking Southwest.

Estimates of cost have been prepared for removing the Bridge street bridge to Butterworth avenue, to Wealthy avenue and to Godfrey avenue. Estimates have also been for new bridges at the same points.

Plans have also been prepared for a concrete bridge at Bridge street, and also for a plate girder bridge at the same place.

Plans are also completed for a concrete-metal bridge over the east side canal at Bridge street, and for removing the plate girder bridge now there to the west side canal at Bridge street. Plans are also nearing completion for a new plate girder bridge over the east side canal should it be so decided—the contract for extending the abutments to the property line having been awarded.

The above work has been done by Assistant City Engineer L. W. Anderson in a careful and skillful manner. Should any of the above work be carried out, his familiarity with its every detail will be of great service to the city.

WATER WORKS.

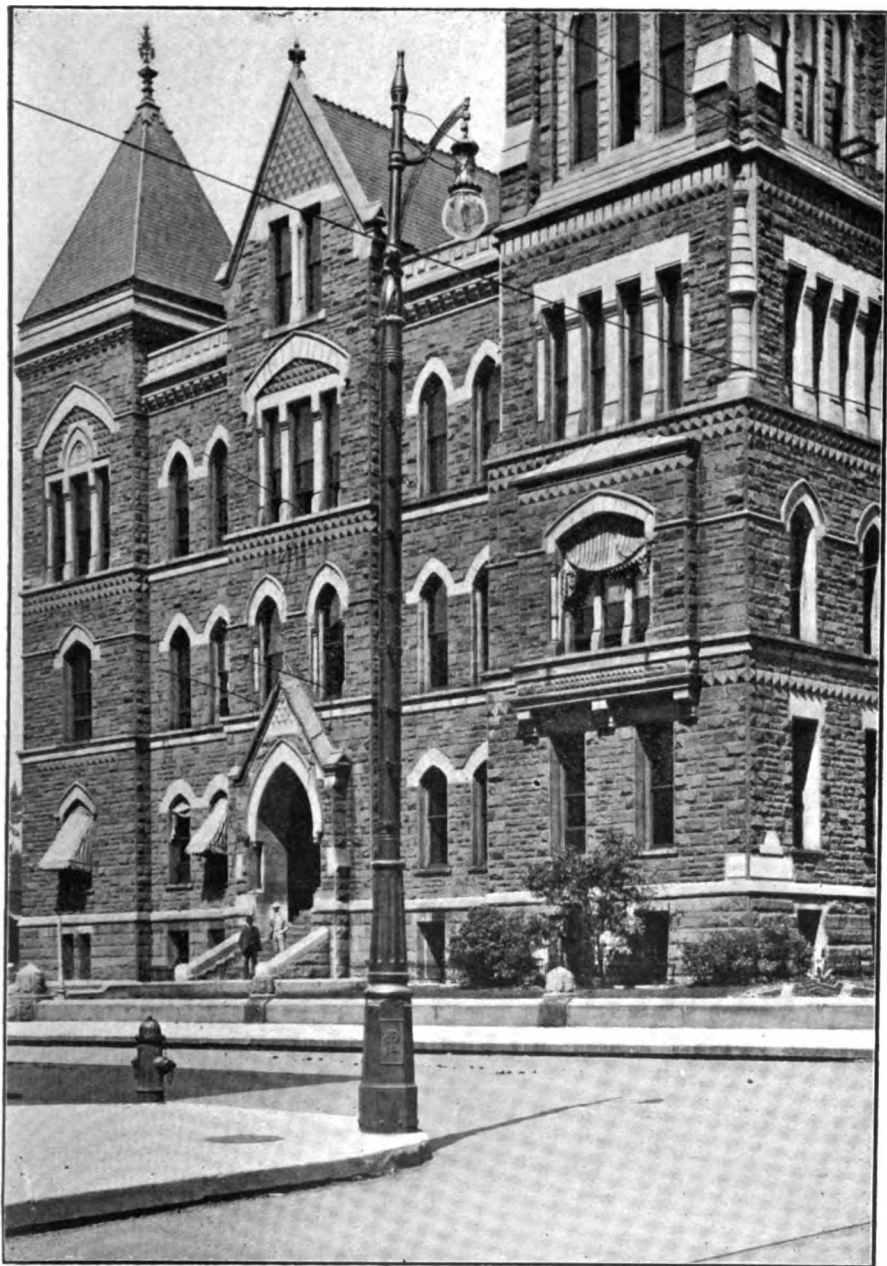
The rule of laying water mains and sewers before improving streets has been followed during the past year as far as funds would permit.

Because of the extremely cold winter of 1898-99, many water mains were frozen. The mains that seemed to give most trouble have been lowered, and in some cases replaced with larger pipe, as shown by the tables.

If attention is given to connecting the mains so as to avoid dead ends, and to the lowering of a few more miles of pipe, a list of which is in this office, the trouble of a year ago from frozen pipes will be obviated.

Considerable work was done in this office in connection with the investigations of the water commission. Turbidity readings are taken daily of the water in the river, and since April 24th, the experimental filters mentioned in the Commission's report, have been in operation, after being idle during the winter. Color tests of the water have also been made as often as time would permit, and should, if possible, be made weekly. This work should be continued and a careful record kept of the results, which will be of great use to the city in constructing the proposed filter system.

New mains to the extent of 6.47 miles have been laid during the year, as shown in the following table. In connection with this work, 72 valves and 52 hydrants have been set:



City Lighting System—View Showing Post Light for Business District.

WATER MAINS.

STREET	EXTENT	Distance in feet from E | W | N | S Street Line				DIAMETER IN INCHES				
		4	6	8	10	12	14	16	18	20
Fountain.....	N. Division to Barclay.....	.....	333	323	.....	.....	.....	.....	.....	.....
Lyon.....	N. Union to Houseman.....	.....	1307	659	.....	.....	.....	.....	.....	.....
Quarry.....	Myrtle to North.....	.....	1130	.....	.....	.....	.....	.....	.....	.....
Hamilton.....	Myrtle to North.....	.....	1313	.....	.....	.....	.....	.....	.....	.....
Jefferson Ave.....	Wealthy to Fifth Avenues.....	.....	191	.....	.....	.....	.....	.....	.....	.....
Grand Ave ..	Fountain to Innis Avenue.....	37	1192	.....	.....	.....	.....	.....	.....	.....
Jackson.....	Marion to Valley Avenue.....	.....	1037	.....	.....	.....	.....	.....	.....	.....
Marion.....	Sibley to Chatham.....	.....	709	.....	.....	.....	.....	.....	.....	.....
Mt. Vernon Alley.....	Shawmut Avenue to W. Fulton.....	978	.....	.....	.....	.....	.....	.....	.....	.....
North.....	Hamilton to Quarry.....	.....	.....	165	.....	.....	.....	.....	.....	.....
Dickinson Ave.....	Madison to Jefferson Avenues.....	.....	.....	1245	.....	.....	.....	.....	.....	.....
Robey.....	Wealthy Avenue, north.....	.....	653	.....	.....	.....	.....	.....	.....	.....
Watson.....	Marion to S. Lane Avenue.....	.....	758	.....	.....	.....	.....	.....	.....	.....
Highland Ave.....	S. Division to Central Ave.....	.....	443	.....	.....	.....	.....	.....	.....	.....
S. East.....	Hall, south.....	595	.....	.....	.....	.....	.....	.....	.....	.....
Marion.....	Butterworth Avenue to L. S. & M. S. R'y.....	.....	449	.....	.....	.....	.....	.....	.....	.....
S. Fuller.....	Lake to Wealthy Avenues.....	.....	.....	.....	997	.....	.....	.....	51	.....
Walker Ave.....	Powers to West.....	.....	.....	850	.....	.....	.....	.....	.....	.....

WATER MAINS—Continued.

STREET	EXTENT	Distance in feet from E | W | N | S Street Line				DIAMETER IN INCHES					
		E	W	N	S	4	6	8	10	12	16
Fairbanks...	N. Lafayette to N. Prospect.....						328				
Campau.	Louis to E. Fulton						90	767			
Elm Ave.....	S. Division to Buchanan.....						1331				
Grandville Ave..	Shamrock Place to Clyde Park Avenue.....							1948			
Prince.....	Madison Avenue to S. Union....						1390				
S. Union....	Prince, south										89
Rose.....	S. Division to Buchanan						1336				
Ringuette Ct	Fifth Avenue, south ..					290					
Turner	Webster to North						803				
Tamarac.....	Walker Avenue to Eleventh ..						1043				
Carroll Ave....	Lake Avenue, south						296				
Davis.	Eleventh to W. Leonard						1373				
Ethel Ave.	Logan to Sherman						612				
Fitzhugh.....	Lake Avenue to Hermitage						731				
N. Lane Ave	W. Bridge to Third						1186				
N. Lafayette	Cedar to Bradford						1296				
Marlon.....	Chatham to W. Bridge						634				
Mt. Vernon	W. Bridge to Blumerich Avenue ..						707				

North Ave.	Carrier to Page.....	.....	419	.....
Tenth.....	Fremont to N. Pine.....	.....	776	.....
Widdcomb.....	Twelfth to W. Leonard.....	.....	660	.....
E Bridge.....	Connection at N. Division.....	.....	43	.....

Mains have been lowered in the following streets :

STREET	EXTENT	Size in Inches	Length in Feet
Colt Ave	E. Bridge, north.....	6	950
Fair.....	S. Division to Jefferson Ave.....	4	890
E. Fulton .....	.....	6	750
Crawford.....	.....	4	987
LaBelle Ave	S. Division to S. Ionia.....	4	590
Palmer Ave. ....	.....	6	2,474
N. Prospect.....	E. Fulton to Fountain.....	6	755
Hastings	Prospect—south, east.....	4	263
Hastings	Prospect—north, west.....	4	238
Fremont.....	Tenth, north.....	6	397
Tenth.....	Fremont to Jennette.....	4	435
Travis Ave	Canal to Plainfield.....	6	846
Logan	S. East to near Barth	$\left\{ \begin{array}{l} 8 \\ 6 \end{array} \right.$	$\left\{ \begin{array}{l} 112 \\ 2,216 \end{array} \right.$
Cass Ave.....	Fifth Ave. to Hall.....	6	2,609
Powell.....	Jefferson Ave. to S. Lafayette.....	4	595
Highland Ave.	Cass Ave. to S. Lafayette	4	300
Highland Ave.....	Madison Ave. to S. College Ave.....	$\left\{ \begin{array}{l} 4 \\ 6 \end{array} \right.$	$\left\{ \begin{array}{l} 639 \\ 49 \end{array} \right.$

Four inch mains have been taken up and replaced by six inch mains in the following streets:

STREET	EXTENT	Length in Feet
N. Prospect.....	Lyon to Crescent Ave.....	478
N. Prospect.	E. Bridge to Hastings	686
N. Union.....	E. Fulton to Crescent Ave.....	2,176
Caledonia	Taylor to Plainfield.....	1 082
Terrace Ave.	Fifth Ave., north	291
Home Ave	Jefferson to Euclid Ave.....	675
Highland Ave.....	S. Lafayette to Madison Ave	640
Hastings	At N. Prospect	117

The cost of the above work, as reported by the Secretary, was \$34,927.32.

The total length of mains in the city water works system is 141.65 miles.

Total number of hydrants 1,324.

Total number of valves 1,180.

RECAPITULATION.

Cost of street improvements \$187,325.00,	
upon which has been paid	\$ 65,679 10
Paid in settlement of old work.....	37,821 55
Cost of sewers	18,805 00
Cost of bridge repairs.....	1,695 85
Water works extension, relaying, etc.....	34,927 32
Total	<u>\$158,928 82</u>

The expenses of this department has been as follows :

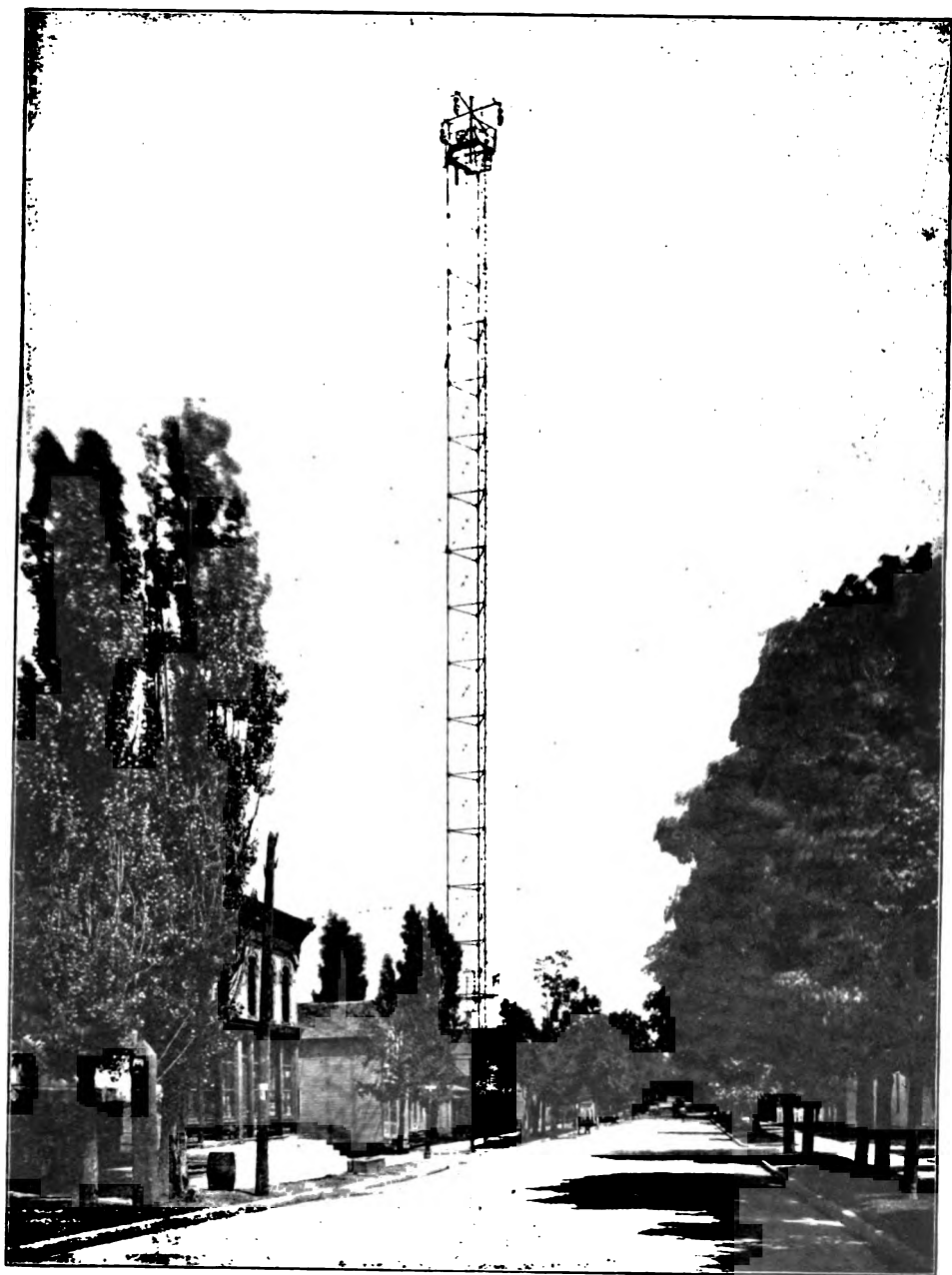
Salaries (charged to general fund).....	\$ 6,327 01
Salaries (charged to special improvements)..	2,514 30
Inspection.....	5,786 09
Transportation	346 34
Supplies and repairs	230 33
Postage.....	14 59
Express.....	6 86
Telephone and telegraph.....	1 75
Total	<u>\$ 15,227 27</u>

Whatever of success has attended the efforts of the past year is in a large measure due to the intense interest and energy put forth by the employes of the department; to the faithful attention given to the work by the inspectors, whose appeals for higher compensation I hope will be favorably considered by your honorable body, and to the members of the Board who have been ever ready with their counsel and support.

Respectfully submitted,

GEO. M. AMES,

City Engineer.



City Lighting System—View Showing Four Light Tower.

COMPLETE LIST OF MEMBERS OF THE BOARD OF PUBLIC WORKS.

Giving Date of Appointment and Time of Service. Appointments made by the Mayor.

NAME		TIME OF SERVICE	
		Years	Months
*Thomas D. Gilbert.....	Appointed April, 1873, served to May, 1876.....	.....	.....
John B. Colton.....	Appointed April, 1873, served to May, 1874.....	1	.....
William T. Powers.....	Appointed April, 1873, served to May, 1876.....	.....	.....
Wellington Hibbard.....	Appointed April, 1873, served to May, 1876.....	3	.....
Lewis C. Davidson.....	Appointed April, 1873, served to May, 1876.....	3	.....
John L. Shaw.....	Appointed May, 1874, served to May, 1877.....	3	.....
Thomas D. Gilbert.....	Re-appointed May, 1876, served to May, 1878.....	5	.....
William T. Powers.....	Re-appointed May, 1876, resigned August 6, 1877.....	4	8
Franklin B. Day.....	Appointed May, 1876, served to May, 1879.....	3	.....
John S. Farr.....	Appointed May, 1876, served to May, 1879.....	.....	.....
*James Miller.....	Appointed May, 1877, died November 25, 1879.....	2	7
L. D. Putnam.....	Appointed September 3, 1877, to fill vacancy.....	.....	8
*William P. Innes.....	Appointed May, 1878, served to May, 1881.....	3	.....
*Thomas Farmer.....	Appointed May, 1878, served to May, 1881.....	3	.....
George W. Thayer.....	Appointed May, 1879, served to May, 1882.....	.....	.....
*William Hovey.....	Appointed May, 1879, died November 21, 1881.....	2	7
Lewis H. Withey.....	Appointed December 8, 1879, to fill vacancy.....	.....	5

COMPLETE LIST OF MEMBERS—Continued.

NAME	TIME OF SERVICE	
	Years	Months
*C. C. Constock	1	.....
O. A. Ball .....	.....	.....
A. D. Plumb .....	.....	.....
F. B. Gilbert .....	.....	.....
Wilder D. Stevens .....	.....	.....
O. L. Howard .....	.....	.....
George W. Thayer .....	.....	5
David E. Emery .....	.....	.....
A. D. Plumb	5	.....
Wilder D. Stevens .....	.....	.....
F. B. Gilbert .....	.....	.....
George G. Briggs .....	.....	.....
George W. Thayer .....	.....	.....
David E. Emery .....	.....	.....
E. B. Dikeman .....	.....	.....
James N. Davis .....	.....	.....
Wilder D. Stevens .....	.....	.....
George G. Briggs .....	.....	.....
*I. M. Weston .....	.....	.....
Appointed May, 1880, resigned May 1, 1881 .....	.....	.....
Appointed May, 1881, resigned May 16, 1881 .....	.....	.....
Appointed May 2, 1881, to fill vacancy .....	.....	.....
Appointed May 23, 1881, to fill vacancy .....	.....	.....
Appointed May, 1881, served to May, 1884 .....	.....	.....
Appointed December 5, 1881, to fill vacancy .....	.....	.....
Re-appointed May, 1882, served to May, 1885 .....	.....	.....
Appointed May, 1882, served to May, 1885 .....	.....	.....
Re-appointed May, 1883, served to May, 1886 .....	.....	.....
Re-appointed May 5, 1884, served to May, 1887 .....	.....	.....
Re-appointed May 5, 1884, resigned August 23, 1884	3	4
Appointed to fill vacancy August 23, 1884 .....	.....	.....
Re-appointed May, 1885, served to May, 1888	9	.....
Re-appointed May, 1885, served to May, 1888	6	.....
Mayor, 1886, (member ex-officio)	1	.....
Appointed May, 1886, served to May, 1889 .....	.....	.....
Re-appointed May, 1887, resigned September 10, 1888	7	4
Re-appointed May, 1887, served to May, 1890	5	8
Mayor, 1888, (member ex-officio)	1	.....

*Freeman Godfrey	Appointed May, 1888, resigned March, 1890	1	11
W. R. Shelby	Appointed May, 1888, served to May, 1891	4	8
John S. Farr	Appointed Sept. 10, 1888, to fill vacancy	1	.....
John Killeen	Mayor, 1889, (member ex-officio)	6	.....
James N. Davis	Re-appointed May, 1889, served to May, 1892	1	1
Allen C. Adsit	Appointed March 24, 1890, to fill vacancy .....	.....	.....
Edwin F. Uhl	Mayor, 1890, (member ex-officio) .....	.....	.....
Francis Letellier	Appointed May 1890, served to May, 1893	3	.....
Eli F. Harrington	Appointed May, 1890, served to May, 1893	2	.....
Edwin F. Uhl	Mayor, 1891, (member ex-officio)	5	2
Wm. R. Shelby	Re-appointed May, 1891, resigned June, 1893 .....	.....	.....
James A. McKee	Appointed May, 1891, resigned September, 1891	1	3
Harvey O. Carr	Appointed January 18, 1892, to fill vacancy—resigned April 15, 1893 .....	.....	.....
William J. Stuart	Mayor, 1892, (member ex-officio)	3	.....
*A. E. Worden	Appointed May, 1892, served to May, 1895	2	.....
William J. Stuart	Mayor, 1893, (member ex-officio)	1	4
James A. McKee	Appointed May 15, 1893, to fill vacancy .....	.....	.....
*C. G. Swensberg	Appointed May, 1893, served to May, 1896	6	.....
Francis Letellier	Re-appointed May, 1893, served to May, 1896 .....	.....	.....
*Enos Putnam	Appointed July 10, 1893, to fill vacancy	1	.....
E. B. Fisher	Mayor, 1894, (member ex-officio)	3	.....
John J. McVean	Appointed May, 1894, served to May, 1897 .....	.....	.....
L. C. Stow	Appointed May, 1894, resigned May 4, 1896	1	.....
Charles D. Stebbins	Mayor, 1895, (member ex-officio) .....	.....	.....

COMPLETE LIST OF MEMBERS—Continued.

NAME		TIME OF SERVICE	
		Years	Months
Dudley E. Waters	Appointed May, 1898, served to May, 1898	.....	.....
L. C. Stow	Mayor, 1898, (member ex-officio).....	3	.....
*C. G. Swensberg	Re-appointed May, 1898, died October 5, 1897	4	5
Enos Putnam	Appointed May, 1898, died January 11, 1898	2	6
William T. Johnston	Appointed May, 1898, to fill vacancy.....	.....	.....
William T. Johnston	Re-appointed May, 1897, served to May, 1900.....	.....	.....
Otis N. Watson	Appointed May, 1897, served to May, 1900.....	.....	.....
J. P. Creque	Appointed October 18, 1897, to fill vacancy ..	1	6
Joseph Houseman	Appointed January 17, 1898, to fill vacancy ..	1	3
George R. Perry	Mayor, 1898, (member ex-officio).....	.....	.....
Dudley E. Waters	Re-appointed May, 1898	.....	.....
Joseph Emmer	Appointed May, 1899	.....	.....
O. A. Ball	Appointed May, 1899.....	.....	.....

*Deceased.

*Pure Water Commissioners,
of the City of Grand Rapids, Mich.:*

GENTLEMEN—The undersigned, having been engaged by your honorable body to inquire into the condition of the present source of water supply, and of the water works of the City of Grand Rapids, and to report a plan for obtaining pure water, and for the improvement of the works, respectfully submit the following:

STATEMENT OF CONDITIONS.

As the result of our examination, we find that, while the source of supply is ample in quantity, it is contaminated by sewage and manufacturing wastes which render the water unsuitable for domestic use. We also find an insufficient pressure of water for fire protection and for domestic purposes at many of the buildings and dwellings in certain portions of the city. This condition of affairs is due to small pipes, and also to an insufficient head of water in the reservoir supplying the low service, and in the stand-pipe supplying the high service. We also find that the boiler capacity is insufficient to supply the present pumping engines, and that additional pumping machinery should be erected to provide a supply in case of accident to any of the present pumps. We also find that the average daily consumption of water per capita is very large, and we are led to believe that much water goes to waste.

SOURCE OF SUPPLY CONSIDERED.

Among the possible sources which we have considered may be mentioned the following: Bailey Springs, Lake Michigan, Little Muskegon River (above Newaygo), Muskegon River (near Hersey), a series of small lakes north-east of the city in Kent County, water from driven wells, Thornapple River and Grand River.

RECOMMENDATIONS.

As the result of our investigation and study, we recommend Grand River as the source of supply, and we further recommend that the water be taken from the river above the Soldiers' Home, and that it be filtered by sand filtration and taken to the present pumping station, and there pumped to the high and low services, as at present. We further recommend that the high service territory be enlarged so as to take in all the city above contour line 80, and also to extend across the river to the high ground on the west side of the city, as shown on the accompanying plan.

We also recommend that the present reservoir be raised 15 feet, so that its flow line will be at an elevation of 192, as shown on a cross-section of the reservoir embankment submitted herewith; and that the present stand-pipe be lengthened 20 feet, or to an elevation of 256; also that a new stand-pipe be built at or near the junction of Fifth Avenue and Bemis Street; and that additional pumping machinery be erected at the present pumping station. We also recommend that the system of water pipes within the city be revised, enlarged and extended, as shown on the accompanying plan, and that vigorous measures be taken for the suppression of waste of water.

ESTIMATED COST OF WORK RECOMMENDED.

The plan which we recommend for the improvement of your works, if built will give an abundant supply of pure water for all purposes to all parts of the city until it reaches a population of 180,000.

The cost of this plant at present prices we estimate to be \$1,426,000.

Portions of the plan recommended should be carried out at once, while other portions may be deferred for a time. It is our opinion that \$1,060,000 will be sufficient to build the

portion needed at present, provided active measures are at once taken to restrict the waste.

For immediate improvement we recommend that you build the filters and clear water basin and conduit to the present pumping station. Also that there be added to the present pumping station one 300 H. P. boiler, for the present pumping machinery, and two new engines for use on the high service with one 300 H. P. boiler, and that the water cylinders of the Gaskill pump be re-bored, if practicable, to a capacity of 12 million gallons per day, for use as an alternate with the Nordberg pump on the low service. Each service would then have an ample reserve in case of accident to the pumping machinery.

We also recommend that the present stand-pipe be lengthened 20 feet, and that as much of the plan for re-inforcing the pipe system be carried out as needed to give relief to those parts of the city now suffering for want of water, as follows:

For the high service: extend the 16-inch in Diamond street to Wealthy Avenue, connecting with the 12-inch pipe; and extend the 16-inch pipe to Union street; Highland avenue and Madison street to Hall street; and lay a 12-inch pipe in Hall street from Madison street to Division street, connecting with the 12 and 8-inch pipes now laid in the latter street. In In Fifth avenue lay a 12-inch pipe from College avenue to Cass avenue, connecting the 16 and 10-inch pipes now in. At the north end of the city connect the present 8-inch pipe now in Plainfield avenue with the 16-inch high service in Coldbrook street. Also replace the 4-inch pipe in Barclay street with a 12-inch pipe.

For the low service: In Mason street lay a 36-inch pipe connecting with the 24-inch pipe in Ottawa street, and continue through Kent street with a 30-inch pipe to Bridge street from the 36-inch pipe to and across the river to Front street.

At the north end extend the 20-inch pipe in Ionia street to Leonard street, and continue in Leonard street to and across the river to Scribner street. Connect the present 12-inch pipes in Fulton street under the railroad tracks from Winter street to Gold street with a 12-inch pipe.

Parts of the work which may be allowed to wait for the present are the new stand-pipe, raising the reservoir, and the rest of the improvements to the distribution system.

DESCRIPTION OF SOURCES OF SUPPLY CONSIDERED, WITH ESTIMATES OF COST.

BAILEY SPRINGS. The use of water from Bailey Springs has been suggested in connection with a filter plant above the Soldiers' Home. An analysis of the water by Prof. Jordan, made at our request, shows the water to be of very great purity, and not harder than the Grand River water. If there were sufficient water to be obtained from these springs, no better supply could be secured, and any project for filtration of the river water would be unworthy of consideration. At our request Mr. Ames measured the quantity of water flowing in these springs, and found it to be 354,000 per 24 hours. It may be that by cleaning out and deepening the sources this quantity could be considerably increased. It might be increased three or four times, or to 1,500,000 gallons per 24 hours, but this seems unlikely. Even in this event it would form but a small fraction of the amount required by the city.

In our opinion it will not be possible to develop, either from these springs, or from ground water sources, near this point, a sufficient quantity of water to supply the city. This water must be regarded, if at all, as an auxiliary supply, and its quantity is so small that it cannot be regarded as an important element in the question.

LAKE MICHIGAN. This lake lies some 30 miles to the west of the city, and offers an unlimited supply of good, pure

water, which it is believed is suitable for a domestic supply without being filtered.

This project as considered would consist of a pumping station located on the shore of the lake 10 miles more or less south of Grand Haven, with a submerged intake located out in the lake far enough to provide against contamination from the shore, or damage by ice, or to navigation. The water could be taken from the lake and pumped directly into the low service system or reservoir, and the water needed for the high service system would be taken from it and re-pumped into the high service, making it necessary to maintain two pumping stations. The present station could be utilized for the high service, while a new pumping plant would be required at the lake.

The first cost of this project would be much greater than that of either the Grand River or the Thornapple River project. The cost of operation would, however, be somewhat less because the lake water would not require to be filtered; nevertheless, the first cost, when added to the cost of operation, capitalized at five per cent., would be over \$4,000,000, which prohibits our recommending it.

LITTLE MUSKEGON RIVER. This river has been suggested as a source of supply for Grand Rapids. This stream takes its rise in Round Lake and Moosehead Lake in Mecosta County, and flows southwesterly through a sparsely settled region, discharging its waters into Muskegon River a few miles above Newaygo.

About 4 miles above its mouth the Little Muskegon River receives the waters from Tamarack Creek, which drains the territory farther to the south, and in which is located Howard City. If the supply of water for Grand Rapids was to be taken from the Little Muskegon River, just above its junction with Tamarack Creek, it would eliminate any possibility of contamination from this latter stream.

Little Muskegon River, at its junction with Tamarack Creek, drains 210 square miles, which area would probably yield enough water; and were it not for the large outlay required to bring it to Grand Rapids, this project would be worthy of consideration.

The shortest distance from the city to the junction of the two streams above referred to is 36 miles, but the conduit would have to pass around certain ridges, increasing its length to at least 40 miles.

The elevation of the river at its junction with Tamarack Creek cannot be determined accurately from data at our disposal, but it is believed to be sufficient to allow the water to flow by gravity into the reservoir of the low service system; but this would not obviate the expense of pumping into the high service system.

It is estimated that the first cost of this project, including a conduit 40 miles long, with a maximum capacity of 25 million gallons daily, suitable for an average daily consumption of 18 million gallons, and the expense of revising the pipe distribution in the city, would amount to about \$3,750,000. If to this figure we add the capitalized expenses of pumping into the high service system, the total cost of the project is increased to \$4,000,000. We have also considered a gravity supply from the Muskegon River some distance above Big Rapids, but the great expense which would be involved and the inferior quality of the water, as shown by an analysis which was made for us, have made further consideration unnecessary.

A gravity supply would possess many advantages, but the first cost of construction in this case more than offsets the expense of pumping from a nearer source of supply.

KENT COUNTY LAKES. About 14 miles northeast of the city, in Kent County, are located a number of small lakes, the waters of which eventually drain into Grand River

through several small tributaries. The drainage area of this lake region, lying south of the T. S. & M. R. R., covers about 110 square miles, and as there are no large thickly settled communities within this area the probabilities are that the waters from these sources would be free from constant pollution often occasioned by populated districts. That accidental pollutions, however, might occasionally occur, is quite possible.

Some of these lakes are indicated as being swampy, while others are surrounded by sand. It is quite probable that if water were taken from these sources for domestic purposes, it would be necessary to filter it, on account of the vegetable matter found growing in these swampy lakes, if not on account of possible contamination.

Any method of collecting the water from this system of lakes would necessarily be expensive, as part of them drain southeasterly into Flat River, and part of them drain northwesterly into Rouge River, both of which rivers discharge into Grand River.

Of the entire system of lakes only two, Bostwick Lake and Silver Lake, are of sufficient elevation to allow their waters to flow by gravity to the city. These two lakes are at an elevation of about 233 feet above Grand River at Grand Rapids, or about the same elevation as the high water line in your stand-pipe. The combined water area of these two lakes is about one square mile, while the combined drainage area for both does not exceed five square miles. This is entirely inadequate to supply the city. To secure a supply from this source it would be necessary to locate a pumping station at some suitable point, where the water from these various lakes could be collected by gravity, and then pumped to Silver Lake and Bostwick Lake, from whence it could be taken to Grand Rapids by gravity.

The distance from these lakes to the city is 14 miles.

With an hydraulic gradient which will allow the water to reach the low service reservoir without pumping, a 60-inch steel pipe will be required to deliver the maximum of 25,000,000 gallons daily, suitable for an average daily consumption of 18,000,000 gallons. The high service system would have to be supplied by pumping from the low service.

It is assumed that the water of the most northerly lakes could be collected by gravity at Nagle Lake, and from there pumped into Bostwick Lake and Silver Lake, using these last two mentioned lakes as distributing reservoirs for the low service system. It is also estimated that only 12,000,000 gallons per day need be pumped for the present, as Bostwick and Silver Lakes would supply the balance, or an average of 3,000,000 gallons per day.

As the supply for the high service system would have to be pumped directly from the low service system, it would be necessary to maintain two independent pumping stations, one at the present location in the city, and the other at Nagle Lake. The quantity of coal required for pumping would not be so great as that required for the Grand River or Thornapple project, but the attendance and other expenses at the pumping stations would nearly, if not quite, offset the difference in the cost of coal.

It is estimated that the pumping at Nagle Lake of 12,000,000 gallons per day would have to be pumped against a head of 75 feet, while the high service system of 8,000,000 gallons per day would require a lift of 70 feet, including friction in the pipes.

The estimated first cost of this project, including the expense of revising the pipe system in the city, would amount to about \$3,400,000. If to this figure we add the capitalized cost of pumping at two stations and filtering, the total cost of the project is increased to \$4,224,000.

If there were no question regarding the supply of water

from these lakes, and provided their waters could all be brought to some one point for distribution, the excessive cost of so doing would prohibit our recommending this project.

DRIVEN WELLS. The project of obtaining water from driven wells has received our attention. We have visited driven wells in the vicinity, have made diligent inquiry of reliable parties, and have given considerable study to this possible source of supply.

The result of these examinations, inquiries and studies has been to confirm our opinion that the portion of Michigan in which Grand Rapids is situated is favorable territory in which to look for underground sources of water supply. We do not feel warranted, however, in recommending an underground source without ascertaining the quantity and quality of the water that can be obtained from it, the permanency of the supply, and its cost. These facts can only be learned by sinking experimental wells on a considerable scale, and pumping from them for considerable periods. At a conference with you on this question, we were informed that you had not the means at your disposal to make such investigations; and we therefore in the absence of definite, positive knowledge, and on account of the great cost which we believe would attend the construction of a driven well system, do not recommend this method of securing a supply.

THORNAPPLE AND GRAND RIVER PROJECTS. Several projects for the use of water from the Thornapple and Grand Rivers have been considered; and as many of the questions involved are common to both sources of supply, they will be treated in a measure together.

Grand River is the present source of supply. The population upon its water-shed is shown approximately by the following table, which for convenience also shows corresponding data for the water-shed of the Thornapple River.

POPULATION ON WATER-SHED OF GRAND RIVER ABOVE GRAND RAPIDS.

Drainage area, 4,800 square miles.

URBAN POPULATION.

Place	County	Approximate distance above proposed intake above Soldiers' Home Miles	1880	1890	1900 (estimated)
Cedar Springs.....	Kent.....	20	1,141	1,035	939
Lowell	Kent.....	24	1,538	1,829	2,175
Ionida.....	Ionida	39	4,190	4,482	4,795
Belding	Ionida	41	562	1,730	3,460
Hastings	Barry.....	45	2,531	2,972	3,480
Greenville	Montcalm ..	49	3,144	3,056	2,971
Portland	Ionida	57	1,760	1,768	1,776
Nashville	Barry.....	60	978	1,029	1,083
St. Johns	Clinton....	70	2,370	3,127	4,126
Stanton	Montcalm ..	72	1,760	1,352	1,039
Grand Ledge.....	Eaton.....	79	1,387	1,606	1,860
Ovid	Clinton....	80	1,479	1,423	1,369
Lansing.....	Ingham....	90	8,319	13,102	20,630
Mason	Ingham....	100	1,809	1,875	1,944
Williamstown	Ingham....	100	982	1,139	1,321
Eaton Rapids.....	Eaton	110	1,785	1,970	2,174
Leslie	Ingham....	115	1,113	1,058	1,005
Jackson	Jackson....	140	16,105	20,798	23,860
Total urban population.....			52,958	65,351	88,017
Urban population per square mile			11	14	17
Rural population per square mile					48
Total population per square mile.....					60

POPULATION OF WATER-SHED ON THORNAPPLE RIVER.

Drainage area, 890 square miles.

URBAN POPULATION.

Place	County	Approximate distance above proposed intake, Ada, Miles	1880	1890	1900 (estimated)
Hastings.	Barry.	28	2,581	2,972	3,490
Nashville.	Barry.	41	978	1,029	1,088
Total urban population.			3,509	4,001	4,578
Urban population per square mile.			4	4.5	5
Rural population per square mile.					41
Total population per square mile.					46

The rain-fall upon the Grand River water-shed, and also that of Thornapple River, according to figures submitted to us, averages about 38 inches per annum, ranging, in different years, from 28 inches to 48 inches. The run-off of both the Grand and Thornapple Rivers is extremely regular, and the minimum flows are much greater than those of streams south of the glacial drift. This is apparently due to the sandy nature of the water-sheds. The soil absorbs a large portion of the rain-fall, and afterwards gives it out slowly to the streams. The storage capacity of the gravel of the glacial drift is enormous, and large flows are maintained from it even in periods of prolonged drought.

The best data at our disposal, namely, the report of Mr. A. C. Sekell, on "Additional Water Supply," June 1880, p. 75, and gaugings made for us by Mr. Ames, of the Thornapple River, indicate that the minimum of flow of the Grand River at Grand Rapids, including the Thornapple, is about 600 million gallons per 24 hours, while the minimum flow of the Thornapple River at Ada is approximately 100 million gallons per 24 hours.

The flow of either streams is far above the probable requirements of the city for a very long period in the future.

The water of the Grand River is objectionable in quality, principally because of the sewage pollution which it receives, rendering it unhealthy; and is likely to become much more unhealthy with the increase in population upon the watershed, particularly in the larger cities. The water is slightly colored by peaty matters, and in this it resembles the clear New England waters rather than the turbid streams of Indiana, Ohio and the states further south. Neither the color nor the turbidity of the water as now used is particularly objectionable.

The water, like all other waters in the vicinity, is rather hard, but this does not seem to have been a matter of serious complaint.

We believe that the water of the Grand River in its unfiltered state, either at the present intake, or at any point up the river above the local sources of pollution, is unsuitable for the permanent supply of your city. It can be made suitable for such supply by proper filtration.

POSITION OF INTAKE. After a careful consideration of the location and condition of the river for some miles above, we are of the opinion that the present intake is not properly placed to secure water in the best manner from Grand River. Already the city has grown far above the intake, and many sources of local pollution exist; and we are of the opinion that this part of the city will grow rapidly in the future, and that the pollution above the intake, which are already important, will become much greater in the future, and that any plant making use of water from the present intake will require to be abandoned at no remote date, on account of the local pollutions. It is true that sewers draining the streets above the intake are carried below it, and the discharge is so arranged that no sewage finds its way back into the water

supply, but the difficulty of maintaining intercepting sewers to divert all of the sewage will increase with the population, and there may be danger of accidents which will allow sewage or drainage to enter the river above, as has happened on the Schuylkill River, at Philadelphia, under very similar conditions, while mills or factories upon the river banks, and other establishments, will contribute directly to the pollution of the stream.

We therefore believe that no expensive plant should be located near the present pumping station, but that new works should be built farther up stream, where they will be free, at least for a long term of years, from local sources of pollution.

We have considered several sites in this connection. One of them is above the Soldiers' Home, about three miles above the present pumping station. This site is unusually well adapted to the construction of works for the purification of water upon any desired system. It is far enough away from the city so that the country above it is not likely to become densely populated for a long time, and local sources of pollution can be controlled. It takes the water above what is now one of the most serious points of pollution, namely, the discharge of sewage from the Soldiers' Home. It does not go above a certain tannery on the other side of the river, and it does not seem necessary to us that it should do so. The refuse discharged from the tannery is extremely offensive, and should be kept out of the water supply. This matter can be kept from the intake by constructing a drain to a point below the intake, or by otherwise disposing of it, at less expense than would be required to remove the proposed intake farther up stream. Further, if the works should be taken above it, there is no guarantee that other tanneries, or establishments equally objectionable, would not in time be located still farther up.

It does not necessarily follow that better water will be ob-

tained by going a greater distance up stream. In fact, there is reason to believe that the upper portions of Grand River are more highly polluted than the portion immediately above Grand Rapids. Some purification results from natural causes. Much more improvement results from the dilution by water from comparatively unpolluted tributary streams. There is, therefore, no advantage in going too far up stream, but there is a very great advantage in going beyond the area immediately above the city, which is likely to become densely populated within the period which must be considered in locating new works for the supply of your city. The estimated cost of a conduit line from the site selected above the Soldiers' Home to the present pumping station is, in round numbers, \$200,000.

About midway between the present pumping station and the site selected there is land which could be used to very good advantage for a purification plant. This would be above all of the local sources of pollution except the Soldiers' Home. The cost of the conduit from the present pumping station to this point would be, in round numbers, \$100,000. The sewage from the Soldiers' Home could be purified for less money than the additional length of conduit would cost, and, if the immediate future only were considered, this site would have much to recommend it. We believe, however, that in view of the prospective growth of the city in this direction that the city can well afford to spend the additional \$100,000 required to put the plant above the Soldiers' Home.

KIND OF FILTERS TO BE USED. There are two kinds of filters often used in this country for the purification of public water supplies, namely, mechanical filters, and sand filters. The natures of these systems of filtration are so well understood as to make it unnecessary to describe them at length in this report.

At the site selected all of the conditions are favorable for the installation of either sand or mechanical filters. In regard to the system to be selected, the results of experience and of elaborate investigations made at a number of places in this country, tend to show that mechanical filters are best adapted to the clarification of extremely turbid waters, while the sand filters are best adapted to the purification from disease producing properties of sewage polluted waters, which are not very turbid. The water of Grand River clearly comes in the latter class. It is polluted by sewage; it is usually comparatively clear, and is never extremely turbid. The first cost of sand filters will be somewhat greater than of mechanical filters, but the operating expenses with them will be less. We believe the sand filters will be more satisfactory, and we recommend them.

DESCRIPTION OF FILTERS FOR GRAND RIVER WATER. A sand filter plant at the site selected would consist briefly of a pumping station one-third of a mile above the highway bridge, which would raise the water about 50 feet from the Grand River, to filters constructed upon a level area of gravelly land some distance above the flood height of the river. The estimate provides for eight vaulted masonry filters, similar in general design to the Albany filters; and at a rate of three million gallons per acre daily, with one filter out of service, they will supply 21 million gallons daily. For short periods larger quantities can be drawn. Two 16-million gallon pumps are provided in the pumping station, and the plant is suitable for the supply of an average consumption of 16 million gallons daily throughout the year. No sedimentation basin is provided, as the water of Grand River is so uniformly free from sediment as to make this unnecessary.

From the filters the water will pass to a vaulted pure water reservoir holding five million gallons, and thence by gravity

through a 48-inch steel conduit line about three miles to the present pumping station.

This plant will yield a water entirely free from sediment and turbidity with much less color than raw water, the amount of color remaining being so small as to be quite unobjectionable, and the bacteria which may carry disease will be removed almost entirely from the raw water. The hardness will remain unchanged.

THORNAPPLE RIVER. The questions presented in the purification of the Thornapple River water are very much the same as those in connection with the Grand River water. Except for sewage pollution the two waters are practically identical, as far as our examinations have gone, and the treatments required are precisely the same.

We have considered the use of the Thornapple River without filtration. It is unquestionably a much purer water than the Grand River water. The population upon its water-shed is less, and it is not growing rapidly. The amount of sewage entering the stream is relatively much less, and is likely to remain so. On the other hand, if infectious material should enter the river, the rapid flow of the river for a long distance above Ada would take it unchanged to the intake, and, in the smaller volume of water, polluting material would be less diluted and would reach the city in more concentrated form, and the results would be more disastrous than a corresponding pollution of the water of a larger river.

After a careful consideration, we are unwilling to recommend the use of the water of the Thornapple River without purification. A single epidemic would do much greater damage to the city in loss of life and reputation than the cost of a purification plant, and the city cannot afford to take this risk.

In considering the Thornapple River as a source of supply, two projects have been studied.

First, that of taking the water from the river at the village of Cascade.

Second, that of taking water from the river near the village of Ada.

These two projects do not differ materially in regard to the quantity and quality of the water. The pipe line from Ada passes an excellent reservoir site high enough to give ample pressure for domestic purposes and fire protection to all parts of the city. There is no corresponding reservoir site on the direct line from Cascade. The line from Cascade is more expensive than the line from Ada.

The best location, all things considered, is at Ada. The raw water will be taken from Thornapple River above the dam, and carried through a 48 inch steel pipe, passing under the Grand Trunk Railroad, through the fields and under the Thornapple River to filter beds to be constructed between the Thornapple River and the roadway leading to the Grand River bridge. As the water is always practically free from sediment, no settling basins will be required. The water will flow by gravity to the filters.

The estimate covers 8 acres of vaulted masonry filters, similar in general construction to the Albany filters. This plant is suitable for an average annual consumption of at least 16 million gallons per day; and with a rate of filtration of 3 million gallons per acre daily, with one filter out of service, 21 million gallons can be drawn at any time. The plant is also sufficient to supply larger quantities for short periods.

The filtered water is taken to a pure water reservoir holding about $3\frac{1}{2}$ million gallons, which in turn is connected with the pump well of the pumping station, to be located near the village of Ada. The pure water reservoir is vaulted, and similar in general construction to the filters. There is ample room for almost unlimited existence of the plant; and should difficulty be found in purchasing any of the land, there are a

- number of other sites in the immediate neighborhood equally as available as that selected, the only difference being in the lengths of piping required.

The filtered water will be pumped to the proposed covered reservoir, holding 15 million gallons, located on the high ground over which the Ada road passes about 3 miles east of the city. The water will be taken from the reservoir to the city by a 48 inch pipe, connected with the general distribution system. The plan also contemplates combining the present high and low services into one general system, and thus to do away with the present reservoir and stand pipe. Whatever of the present pumping machinery is suitable, it is to be transferred to the proposed new pumping station at Ada.

EXPERIMENTS WITH FILTRATION. At our request, your city engineer, Mr. George M. Ames, has constructed two experimental filters, and has operated them for a period of some months. These experiments were not necessary to demonstrate whether or not Grand River water could be successfully filtered. That was perfectly well known from general experience; but there were several matters of local importance which could be best settled in that way. The first of these questions was as to whether local sands could be used for filtering material.

When a water is filtered through a sand which contains no lime, its mineral composition remains unchanged. When, however, it is filtered through a sand containing lime, it may dissolve some of it, and thereby become harder. Sand from the shore of Lake Michigan is quite free from lime, but sand from the banks in Grand Rapids contains lime in considerable quantity. The sand from the shore of Lake Michigan would be perfectly satisfactory as a filter sand. Much of the bank sand is of the right grain size, and is otherwise suited for filtration, and can be obtained more cheaply than the lake sand. If it can be used without hardening the water, some saving in

the cost of filters will be effected. If, on the other hand, its use will harden the water, we should not wish to base our estimates upon the supposition that it will be used.

To determine this point two filters were constructed containing respectively sand from the lake shore and a bank sand. Samples of water before and after filtration were sent to Prof. E. O. Jordan of the University of Chicago for analysis. The results obtained are appended to this report. These examinations demonstrated that the bank sand had no appreciable effect upon the hardness of the water. Probably the water has already as much lime in solution as it will readily carry, and it is not capable of taking up further quantities from the sand. The use of bank sand in this case is therefore admissible, and the question as to which sand to use will turn upon other conditions.

The experiments also served to demonstrate whether or not there was any substance in the Grand River water which would clog the filters with rapidity. Many of the impurities taken from a water by filtration are held by, and stored in, the upper layer of filter sand. The surface layer is taken off, washed and replaced at intervals. The principal cost of operating sand filters is represented by this operation. Different waters clog filters with very different degrees of rapidity, and it is thus important to know how often filters will have to be cleaned. The experiments made by Mr. Ames showed that the Grand River water is particularly favorable in this respect; that filters will be clogged very slowly; and that the operating expenses in connection with its purification will be unusually low.

HARDNESS OF RIVER WATER AND SOFTENING. As a result of the numerous analyses which have been made it appears that the waters of both the Grand and the Thornapple Rivers have on an average about 25 parts in 100,000 of total solids, of which substantially 20 parts are carbonates

of calcium and magnesium and constitute hardness. The two waters are practically identical in this respect.

The following table is compiled from various sources, believed to be reliable, and shows the corresponding data for a number of supplies.

	Total Solids.	Hardness, Parts in 100,000 CaCO ₃
GRAND RAPIDS, MICH.....	25	20
Lancaster, Pa., Conestoga Creek	16	10
Pittsburg, Pa., Allegheny River.....	12	4
Cincinnati, Ohio, Ohio River	11	3
Louisville, Ky.....	16	8
Scioto River, Columbus	49	28
LaSelle, Illinois, springs	33	26
Austin, Tex., Colorado River	29	18
Reading, Pa	9	5
Lake Michigan	14	12
Lake Erie.....	12	10
Boston, Mass.....	4	1
Nearly all New England waters, less than	6	2
Winnepeg, Man., Wells	110	50
London, River supplies.....	81	21
" Well supplies	39	28
Southampton, Raw water from wells		26
" Softened water.....		8
Paris, Spring supplies.....	25	20
" Canal	59	35
" River Seine	29	19
Hamburg, River Oder.....	32	10
Dresden, wells	16	11
Berlin, Lake Tegel.....	18	11
Rotterdam, River Maas.....	28	13
Vienna, Spring water.....	15	12
Munich, galleries	29	27
Halle, wells	50	35

The water of Grand River is very hard, although many harder waters are in use at various places with generally satisfactory results. It is fortunate that the lime in this water is almost entirely in the form of carbonate, and not in the form of sulphate, as the former is much less injurious to boilers than the latter; and it is probably due to this fact that

so little complaint has resulted from its use in Grand Rapids.

A number of cities having very hard waters have constructed softening plants, and it would be perfectly practicable to soften the Grand River water. The expense involved would be considerable. We have not thought it necessary to make detailed estimates for a softening plant. In fact, such estimates would require a much more elaborate consideration of the subject, and a greater expenditure of time and money than we have felt authorized to undertake.

We do not feel, under the circumstances, like recommending construction of a softening plant, but we do feel that the advantages of a soft water are very great, and that it is probable that the time will come when a softening plant will be advantageous to your city.

When the water is softened, it can best be done in connection with filtration, and as a preliminary process to it; and we feel that the site to be selected for the filters should be such as to allow the construction of a softening plant in the future, should it be deemed advisable, and we have had this in mind in selecting sites for filters.

POLLUTION OF STREAMS.

The pollution of streams by the sewage of towns above points where they are used for public water supplies, even though the latter are purified by filtration, cannot be regarded with indifference. The rights of various municipalities in streams are apparently less clearly defined in Michigan than in some other states; and we respectfully suggest the propriety and necessity of securing legislation to define these rights, and to prevent, as far as possible, the discharge of crude sewage into the waters which will be used by your city. Whether this legislation should be special, applying to Grand Rapids only, or general, applying to all the streams in the state, must be left to you, and to the wisdom of your legislature.

SYSTEMS OF DISTRIBUTION.

The city is now divided into two services, viz: the high and low service.

The low service is connected with a reservoir having a storage capacity of 6,000,000 gallons, and with its high water mark at an elevation of 177. This system supplies about all the business portion of the city, and the high ground in the western portion.

The area covered by the low service system at the present time comprises more than one-half of the entire city, and the average quantity of water supplied during the last year was estimated at 9,400,000 gallons per day, or a little less than two-thirds of the entire consumption of the city.

The high service system takes its supply from the same source and pumps into a stand-pipe 30 feet in diameter, with the over-flow placed at an elevation of 236. The area supplied by this system comprises all of the territory lying east of a contour line 100 and a small portion in Canal street north of Bridge street. The average quantity of water supplied by this system during the past year was about 5,325,000 gallons per day, or a little more than one-third of the entire consumption of the city.

The pressure due to the water in the stand-pipe when full is sufficient to supply nearly all of the area covered by this system, but on the eastern side of the city there are some locations where the pressure would be too small to afford good fire protection.

There are other locations where the pressure and quantity of water are insufficient for fire service and domestic use, because of the inadequacy of the pipe systems. The existing pipes are too small to carry the required quantities without the loss of too much pressure by friction.

To meet this deficiency it will be necessary to reinforce and enlarge the pipe distribution. The last annual report of the

Board of Public Works states that, there are a little upwards of 135 miles of pipe now in use. Of this amount 30 per cent. of the pipes are 4 inches in diameter, and 34 per cent. are 6 inches in diameter. In all 64 per cent. of the total length of pipe in the city are 6 inches and less in diameter. The proportion of small pipe is excessive, and unnecessary loss of pressure results.

At the present time only two pipes cross the river to supply the western side of the city, one being 16 inches and the other 12 inches in diameter. We do not consider these sufficient to meet the demands.

DISTRIBUTION SYSTEM FOR THORNAPPLE RIVER PROJECT.
This project contemplates putting the entire city into one service, with the reservoir at an elevation of 240. The highest part of the city would have 60 feet of head, while in the lower or business portions, the head would be 220 feet, equivalent to 95 pounds pressure to the square inch.

The 48-inch pipe line from the reservoir will enter the city on Robinson Avenue and cross over to Wealthy Avenue with a 36-inch pipe, and through Wealthy Avenue to River Avenue with 36, 30 and 24 inch pipes, crossing Grand River on the line of Wealthy Avenue. A 16-inch pipe is to be laid through River Avenue, Park Avenue, Marion and Lincoln Streets, to the high ground at the extreme western side of the city, and a 20-inch pipe through Ellsworth Avenue, Monroe and Canal Streets, connecting with the present 24-inch main in Bridge Street. It is proposed to cross the river at Bridge Street and Leonard Street with 20-inch pipes, and to lay in Eleventh Street a 16-inch pipe, connecting with the 16-inch pipe to be laid in Lincoln Street, thus making a complete circuit. There are also a number of minor changes and additions recommended which are fully shown upon the accompanying plan, which is marked "Distribution System for Thornapple River Project."

It is estimated that this project will cost, when completed, \$1,885,000, including land, mill privilege at Ada, filters, reservoir, pumping station, pipe lines, rights of way, and the reinforcement of the distribution system.

The annual cost of operation, including the expenses of filtering 15,000,000 gallons of water per day, is estimated at \$42,400, which, capitalized at 5 per cent., amounts to \$848,000, which, added to the cost above stated, makes a grand total of \$2,733,000.

DISTRIBUTION SYSTEM FOR GRAND RIVER PROJECT. This plan, in general, is to retain the present pumping plant at Coldbrook Street, adding two pumping engines with boilers to the pumping machinery there, to make it more efficient and ample for all emergencies; to lengthen the present stand-pipe 20 feet, and raise the reservoir so that the water line will be 15 feet higher; to enlarge the high service system so as to take about all the ground above contour 80, and extend it across the river to the high ground at the western side of the city. Also to build a new stand-pipe at the corner of Fifth Avenue and Bemis Street 30 feet in diameter, making the high water line at an elevation of 256, and to lay mains as shown on the plan.

The low service system of piping will be reinforced sufficiently to give good pressures in all parts of the system.

At the main pumping station it is proposed to substitute for the two Butterworth & Lowe pumps, two 12,000,000 gallon pumps, and add two 300 horse power boilers. Both of the new pumps to be used on the high service and the Gaskill pump, in conjunction with the Nordberg pump, to be used on the low service. This arrangement would provide a duplicate plant for both systems.

It is estimated, if the area in the high service be enlarged and the area of the low service be reduced, as before outlined and shown on the accompanying plan, the average con-

sumption of water for the high service will be about 8,000,000 gallons per day, and for the low service, 7,000,000 gallons per day.

The plan designed for raising the reservoir consists of building a concrete wall at the toe of the slope, putting the bottom or foundation of the wall below the bottom of the reservoir, and carrying it up the wall 15 feet above the present embankment, and filling in behind it with the material taken out in excavation, as shown on a sketch accompanying this report. It is believed that this plan can be carried out successfully, and without weakening in any way the present structure. The reservoir, after being rebuilt in this manner, would have a capacity of 10,000,000 gallons and an increased head of 15 feet.

The thickness of the plates used in building the present stand-pipe is sufficient to carry safely an additional height of 20 feet, unless a critical examination should show deterioration in them.

The plan of piping furnished us shows two pipes, a 20-inch and a 16-inch, connecting with the reservoir. These two pipes are hardly sufficient to supply the demand for water, and it is proposed to add another line 36 inches in diameter on the westerly side opposite Mason street.

It is proposed to continue the 36-inch line in Mason street to Kent street, and to lay a 30-inch pipe through Kent street to Bridge street, crossing the river at this point with a 24-inch pipe. To lay in Canal, Monroe streets and Ellsworth avenue a 20-inch pipe, connecting with the present 12-inch pipe in Grandville avenue, and to extend the present 20-inch pipe in Ionia street to Leonard street, crossing the river at this point with a 20-inch pipe; also to lay a 20-inch pipe northerly in Canal street to Ann street. On the west side it is proposed to lay a 16-inch pipe in Front street and Bridge street to North street, and through North street to Alpine street, con-

necting with the 12-inch pipe now laid in the latter street; and in Sixth street a 16-inch pipe from Front street to Stocking street. There are also some minor changes in the smaller pipes which are fully shown on the plan marked "Distribution System for Grand River project."

For the high service system it is proposed to enlarge the area so as to include all the territory lying south of Fifth Avenue and easterly of Lafayette, Barclay, Bostwick and Clinton streets south of the reservoir, and easterly of Plain field and Coit Avenues on the north. In order to furnish water to the high ground on the west site of the city, it is proposed to lay a 16-inch pipe through Eleventh street, crossing the river and connecting with the 24-inch pipe in Canal street, now used for the high service.

It is intended to extend the 16-inch pipe now laid in Diamond Street to the proposed new stand-pipe at the corner of Fifth Avenue and Bemis Street, and to reinforce the southerly part of the city with a 16-inch pipe from the new stand-pipe, as indicated on the plan.

With the pipe system thus reinforced and enlarged, and with the raising of the water levels in the reservoir and stand-pipe, as above outlined, the supply and pressure of water would be ample in all parts of the city.

The cost of this project is estimated at \$1,426,000. The annual cost of operation, including the cost of pumping to the filters, filtering and pumping into reservoir systems, is estimated at \$55,200, which, capitalized at 5 per cent., and added to the first cost, makes a grand total of \$2,530,000.

POPULATION, CONSUMPTION, WASTE OF WATER, USE OF METERS AND REVENUE.

Accompanying this report is a table showing the past growth of the city of Grand Rapids, its present population, and the estimated future growth of the city. A table also accompanies the report, showing the past and present consumption

of water. This table also shows what we think the future consumption may be confined to by the use of meters. We have estimated that the consumption will be reduced to 100 gallons per day per capita within five years.

It should not be the intention to restrict the use of water, but simply to prevent waste. Water wasted does no good to anyone, but, on the contrary, causes a nuisance and does damage. Usually no income is derived from water wasted. Generally only a small number of people waste water; hence it follows that the majority of water takers, who are careful and honest in the use of water, must pay directly or indirectly for the water wasted by a comparatively small number of careless, not to say dishonest, takers. Many facts might be presented, showing the effect that the introduction of meters has in many places, in preventing the waste of water; but we believe you are already familiar with these facts, and that you are well convinced of the soundness of the principle of selling water by meter rates, and the tendency to thus greatly reduce waste of water.

Regarding the present rates charged for metered water, we desire to call your attention to what we believe to be a defect in the rates, and suggest some modification of them. For instance, at your present meter rates, a party taking 18,000 cubic feet of water per quarter would pay \$18.00, while a party taking 20,000 cubic feet would pay only \$14.00; again, a party taking 90,000 cubic feet would pay \$63.00, while a party taking 100,000 cubic feet would pay only \$55.00. Other somewhat similar cases could be cited, as the results of your present meter rates.

To obviate this defect we would suggest some such scale as the following:

	Price per 100 cubic feet.
For the first 10,000 cubic feet of water in one quarter,	10 cents.
For all additional water, not exceeding 30,000 cubic feet per quarter,	7 "
For all additional water, not exceeding 100,000 cubic feet per quarter,	5½ "
For all additional water,	4½ "
Minimum rate, \$1.25 per quarter.	

We earnestly recommend that you make a house to house inspection of all the water fixtures, and that the most rigid inspection be made of the distribution system throughout the city, particularly at river crossings, in order to discover any cases where water is going to waste, whether it be through fixtures or leaky pipes.

We also recommend that you put Venturi meters on the main pipe lines supplying the city, thus enabling you to have an accurate record of the water pumped and used at all hours of the day and night.

We wish to express our thanks to His Honor, the Mayor, and to the Commissioners, for the facilities they have given us in making our investigations. We desire also to acknowledge our appreciation of the assistance rendered us by Mr. Ames, City Engineer, in furnishing us with needed data.

Respectfully submitted,

ALLEN HAZEN,
SAMUEL M. GRAY.

NEW YORK, Dec. 6, 1899.

CHEMICAL ANALYSES OF WATER FROM GRAND RAPIDS.

PARTS PER MILLION.

By E. O. Jordan, University of Chicago.

	Deep Well at Leonard Refrigerator Factory	Tap on Grand Rapids Hydraulic Co.'s pipe	Grand River, City Pumping Station tap
Date of collection	June 19, '99	June 19, '99	June 20, '99
Date of examination	June 19-'99	June 19-'99	June 20-'99
Turbidity	Great	None	Distinct
Sediment	None	Very little	Very little
Color	0.00	0.45	0.50
Odor	None	None	None
RESIDUE ON EVAPORATION.			
Total	2604.0	276.	281.6
Dissolved	2596.8	264.	281.6
Suspended	7.2	12.	0.
Chlorine	540.4	4.4	4.0
Oxygen consumed	4.8	5.7	9.0
Free Ammonia	1.1	0.048	0.112
ALBUMINOID AMMONIA.			
Total	0.048	0.168	0.320
Dissolved	0.042	0.164	0.304
Suspended	0.006	0.004	0.016
HARDNESS.			
Temporary	205.	235.	240.
Permanent	470.	0.	0.
Total	675.		
NITROGEN AS			
Nitrites	0.0075	0.0080	0.
Nitrates	0.3000	0.7000	0.1000

CHEMICAL ANALYSES OF WATER FROM GRAND RAPIDS.

PARTS PER MILLION.

By E. O. Jordan, University of Chicago.

	Grand River from pipe supply- ing filter	Grand River filtered through Sullivan's sand	Grand River filtered through Lake Mich. sand
Date of collection	Sept. 4, '99	Sept. 4, '99	Sept. 4, '99
Date of examination	Sept. 5, '99	Sept. 5, '99	Sept. 5, '99
Turbidity	Slight	None	None
Sediment	Very little	None	None
Color	0.35	0.30	0.30
Odor	None	None	None
RESIDUE ON EVAPORATION.			
Total	253.	237.	242.
Dissolved	252.	236.	242.
Suspended	1.	1.	0.
Chlorine	7.7	7.3	8.1
Oxygen consumed	4.1	3.6	3.6
Free Ammonia	0.050	0.036	0.052
ALBUMINOID AMMONIA.			
Total	0.128	0.112	0.120
Dissolved	0.120	0.112	0.120
Suspended	0.008	0.000	0.000
HARDNESS.			
Temporary	205.	205.	205.
Permanent	0.	0.	0.
Total	205.	205.	205.
NITROGEN AS			
Nitrites	Tr.	0.000	0.000
Nitrates	0.400	0.020	0.015

CHEMICAL ANALYSES OF WATER FROM GRAND RAPIDS.

PARTS PER MILLION.

By E. O. Jordan, University of Chicago.

	Grand River from pipe supply- ing filter	Grand River filtered through Sullivan's sand	Grand River filtered through Lake Mich. sand
Date of collection	Aug. 8, '99	Aug. 8, '99	Aug. 8, '99
Date of examination	Aug. 10, '99	Aug. 10, '99	Aug. 10, '99
Turbidity	Slight	None	None
Sediment	Very little	None	None
Color	0.00	0.00	0.00
Odor	None	None	None
RESIDUE OF EVAPORATION.			
Total	270.	258.	254.
Dissolved	267.	257.	252.
Suspended	3.	1.	2.
Chlorine	6.6	6.6	6.6
Oxygen consumed	6.0	5.1	5.0
Free Ammonia	0.038	0.059	0.022
ALBUMINOID AMMONIA.			
Total	0.204	0.162	0.148
Dissolved	0.198	0.162	0.148
Suspended	0.006	0.000	0.000
HARDNESS.			
Temporary	222.5	220.0	232.5
Permanent	70.0	0.0	140.0
Total	292.5	220.0	372.5
NITROGEN AS			
Nitrites	0.000	0.026	0.000
Nitrates	0.000	0.050	0.050

CHEMICAL ANALYSES OF WATER FROM GRAND RAPIDS.

PARTS PER MILLION.

By E. O. Jordan, University of Chicago.

	Grand River from pipe supply- ing filter	Grand River filtered through Sullivan's sand	Grand River filtered through Lake Mich. sand
Date of collection	Oct. 2, '99	Oct. 2, '99	Oct. 2, '99
Date of examination ..	Oct. 3, '99	Oct. 3, '99	Oct. 3, '99
Turbidity	None	None	None
Sediment	None	None	None
Color	0.40	0.22	0.22
Odor	None	None	None
RESIDUE ON EVAPORATION.			
Total	266.	262.	263.
Dissolved	264.	262.	263.
Suspended	2.	0.	0.
Chlorine	7.2	7.6	7.6
Oxygen consumed	4.8	4.4	4.3
Free Ammonia	0.02	0.01	0.01
ALBUMINOID AMMONIA.			
Total	0.108	0.076	0.086
Dissolved	0.078	0.076	0.086
Suspended	0.030	0.000	0.000
HARDNESS.			
Temporary	200.	202.	200.
Permanent	8.	11.	6.3
Total	208.	213.	206.3
NITROGEN AS			
Nitrites	0.002	0.000	0.000
Nitrates	0.250	0.300	0.300

ESTIMATED POPULATION AND CONSUMPTION.

Year	Population	Daily average consumption	Year	Population	Daily average consumption
1876	23,700	651,800	1901	104,700	14,710,000
1877	25,500	688,100	1902	108,400	14,020,000
1878	27,400	897,100	1903	112,100	13,330,000
1879	29,500	1,107,500	1904	115,800	12,640,000
1880	32,000	1,335,600	1905	119,500	11,950,000
1881	35,000	1,156,600	1906	123,200	12,320,000
1882	38,000	1,284,600	1907	126,900	12,690,000
1883	41,000	1,538,000	1908	130,600	13,060,000
1884	44,000	1,932,700	1909	134,300	13,430,000
1885	47,200	2,029,200	1910	138,000	13,800,000
1886	50,500	2,396,400	1911	141,700	14,170,000
1887	53,800	2,777,000	1912	145,400	14,540,000
1888	57,200	2,717,000	1913	149,100	14,910,000
1889	60,500	3,315,000	1914	152,800	15,280,000
1890	64,147	4,392,000	1915	156,500	15,650,000
1891	67,700	6,127,000	1916	160,200	16,020,000
1892	71,400	7,199,000	1917	163,900	16,390,000
1893	75,100	8,837,000	1918	167,600	16,760,000
1894	78,800	10,324,000	1919	171,300	17,130,000
1895	82,500	10,958,000	1920	175,000	17,500,000
1896	86,300	11,369,000	1921	178,000	17,800,000
1897	90,200	12,702,000	1922	182,400	18,240,000
1898	93,913	14,730,000	1923	186,100	18,610,000
1899	97,500	15,200,000	1924	189,800	18,980,000
1900	101,000	15,400,000	1925	193,500	19,350,000

GRAND RAPIDS WATER WORKS.

LAKE MICHIGAN PROJECT.

Distance from the lake is about 30 miles, or 158,000 feet.

Loss of head while pumping 25,000,000 gallons per day through 60-inch steel pipe is 63 feet, making 262 feet head to pump against the reservoir to elevation 192 or 199 feet above Lake Michigan.

ESTIMATE OF COST.

158,000 feet of 60-inch steel pipe, at \$14.....	\$2,212,000
Intake and crib work.....	200,000
Pumping station complete.....	213,750
Lengthening the present standpipe.....	1,860
New standpipe.....	13,238
Raising the reservoir.....	96,685
Reinforcing the distribution.....	310,000
Land and rights of way.....	10,000
	<hr/>
	\$3,057,533
Engineering and contingencies, 10 per cent....	305,753
	<hr/>
	\$3,363,286
Capitalized cost, \$39,064 for operating 5 per ct.	781,280
	<hr/>
Total cost of Lake Michigan project.....	\$4,144,566

KENT COUNTY PROJECT.

ESTIMATE OF COST.

Gravity main, 74,000 feet 60-inch steel pipe, Silver Lake to the city, at \$14.....	\$1,036,000
Force main, 48,000 feet 48-inch steel pipe, Nagle Lake to Silver Lake, at \$11.....	528,000
Gravity main, 32,000 feet 48-inch steel pipe, Wabasis Lake to Nagle Lake, at \$11.....	352,000
Filter plant.....	550,000
Lengthening the present standpipe.....	1,860
New standpipe.....	13,238
Raising the reservoir.....	96,685
Reinforcing the distribution.....	310,000
Pumping station complete.....	180,000
Land and rights of way.....	15,000
	<hr/>
	\$3,082,783
Engineering and contingencies, 10 per cent....	308,278
	<hr/>
	\$3,391,061
Capitalized cost, \$41,645 for operating at 5 pr ct.	832,900
	<hr/>
Total cost of Kent county project.....	\$4,223,961

LITTLE MUSKEGON RIVER PROJECT.

ESTIMATE OF COST.

211,000 feet of 60-inch steel pipe, at \$14.....	\$2,954,000
Dam and head gates.....	25,000
Land and right of way.....	10,000
Lengthening the present standpipe....	1,860
New standpipe.....	13,238
Raising present reservoir.....	96,683
Revising the distribution.....	310,000
	<hr/>
	\$3,410,783
Engineering and contingencies, 10 per cent....	341,078
	<hr/>
	\$3,751,861
Capitalized cost, \$11,200 for operating at 5 pr ct.	224,000
	<hr/>
Total cost of Little Muskegon River project....	\$3,975,861

THORNAPPLE RIVER PROJECT.

ESTIMATE OF COST.

Filter plant, complete.....	\$ 544,500
Pumping station, complete.....	174,000
Pipe lines, pumping station to city.....	480,200
Reservoir, complete.....	150,000
Reinforcing the pipe distribution.....	365,150
	<hr/>
	\$1,713,850
Engineering and contingencies, 10 per cent....	171,885
	<hr/>
	\$1,885,235
Capitalized cost, \$42,407 for operating at 5 pr ct.	848,140
	<hr/>
Total cost of Thornapple River project.....	\$2,733,375

ESTIMATES OF COST IN DETAIL.

FILTER PLANT.

Mill privilege.....	\$ 15,000
Right of way.....	500
Land, 35 acres, at \$200.....	7,000
Bulkheads and gates.....	3,000
Raw water pipes, 1,700 feet 48-inch steel at \$11.....	18,700
River crossing, extra.....	3,300
Filters.....	447,000
Clear water reservoir.....	50,000
	<hr/>
Total.....	\$544,500

PUMPING STATION.

Building.....	\$ 40,000
Foundations.....	15,000
Horizontal pump, (15,000,000 gal.).....	47,500
Moving present pumps.....	35,000
Boilers, five 250 H. P., at \$15.....	18,750
Repairing present pumps.....	2,750

Piping, valves, etc	5,000	
Coal pockets and side tracks.....	10,000	
Total.....		\$174,000

Pipe lines, pumping station to the city.

FORCE MAIN.

Steel pipe, 28,700 feet 48-inch steel pipe, at \$11	\$315,700	
Right of way in highway.....	5,000	
		\$320,700

LEADING MAIN.

Steel pipe, 14,500 feet 48-inch steel pipe, at \$11	\$159,500	
Total.....		\$480,200
Covered reservoir complete.....		\$150,000

REINFORCING THE PIPE DISTRIBUTION.

4,600 feet of 36-inch pipe, at \$9.30...	\$ 42,780	
6,100 " " 30-inch " " 7.00...	42,700	
5,600 " " 24-inch " " 4.80...	26,880	
9,400 " " 20-inch " " 3.70...	34,780	
29,900 " " 16-inch " " 2.80...	83,720	
17,700 " " 12-inch " " 2.00...	35,400	
7,100 " " 10-inch " " 1.50...	10,550	
27,100 " " 8-inch " " 1.20...	32,520	
31,500 " " 6-inch " " 0.90...	28,350	\$337,780
Special castings.....		11,134
2 36-inch valves and boxes, at \$510.00..	\$ 1,020	
3 30-inch " " " " 325.00..	975	
4 24-inch " " " " 190.00..	760	
10 20-inch " " " " 125.00..	1,250	
18 16-inch " " " " 75.00..	1,350	

16 12-inch valves and boxes, at \$ 49.50..	\$	792	
4 10-inch " " " "	37.50..	150	
20 8-inch " " " "	25.50..	510	
34 6-inch " " " "	18.50..	629	7,436
<hr/>			
River crossing, 800 feet 24-inch pipe,			
at \$4.....			3.200
River crossing, two lines 800 feet 20-inch			
pipe, at \$3.50.....			5,600
<hr/>			
Total.....			\$365,156

ESTIMATE OF THE COST OF OPERATING THE WORKS.

Average rate of pumping 15,000,000 gallons per day:

Elevation of reservoir.... 240

Elevation of pump well... 20

Static head..... 220 feet.

Friction..... 10

Total head required for
pumps 230 feet.

Cost of coal per annum..... \$ 13,642

First engineer..... 2,000

Three engineers..... 2,900

Three firemen and helpers..... 4,140

Repairers, oil, waste, etc..... 3,300

Filtering water, at \$3.00 per million gallons..... 16,425

Total..... \$ 42,407

Capitalized cost of \$42,407 at 5%..... \$848,140

GRAND RIVER PROJECT.

ESTIMATES OF COST.

Filter, plant complete.....	\$ 779,200
Additions to present pumping plant.....	107,500
Lengthening the present stand pipe.....	1,860
New stand-pipe.....	13,238
Raising the present reservoir.....	96,685
Enlarging and reinforcing high service distribution.....	127,170
Reinforcing low service distribution.....	171,278
	<hr/>
	\$1,296,931
Engineering and contingencies, 10 per cent....	129,693
	<hr/>
	\$1,426,624
Capitalized cost for operating \$55,187 at 5 pr ct.	1,103,740
	<hr/>
Total.....	\$2,530,364

ESTIMATES OF COST IN DETAIL.

FILTER PLANT.

Land, 75 acres, at \$200.....	\$ 15,000
Pumping station and pump well	35,000
Boilers, two 200 H. P., at \$15 per H. P.....	6,000
Suction pipe, 500 feet 42-inch steel pipe, at \$10..	5,000
Pumps, two 16 million gallon, at \$29,000.....	58,000
Rising main, 500 feet 48-inch steel pipe, at \$11..	5,500
Drains and washing mains.....	4,500
Filters.....	408,000
Pure water reservoir, 5 million gallons.....	62,000
Gravity main, 16,200 feet 48-inch steel pipe at \$11,	178,200
Pipe connections, valves, etc.....	2,000
	<hr/>
Total.....	\$779,200

ADDITIONS TO PRESENT PUMPING PLANT.

Pumps, two 12 million gallon, at \$45,000.....	\$ 90,000
Boilers, two 300 H. P., at \$15 per H. P.....	9,000
Foundations for pumps and boilers.....	5,000
Piping and valves.....	2,000
Enlarging Gaskill pump cylinders to 12 million gals	1,500
Total.....	<u>\$107,500</u>

LENGTHENING THE PRESENT STAND-PIPE.

Four courses of steel rings, each five feet high, including laps.

Elevation of water, 256.

26,000 pounds of steel plates, erected, at \$0.06.....	\$ 1,560
Staging.....	300
Total.....	<u>\$ 1,860</u>

NEW STAND-PIPE.

Steel, 30 feet in diameter and 75 feet high. Elevation of water, 256. Weight of stand-pipe, 156,300 pounds complete.

Lower course, 9-16 in. thick. Upper course, 5-16 in. thick.
Bottom, 5-8 in. thick.

Factor of safety 4, with 70% efficiency at riveted joints.

Steel, 156,300 pounds, erected, at \$0.06\$ 9,378

FOUNDATIONS.

Cut stone, 16 cubic yards, at \$30.00.....	\$ 480
Concrete, 240 " " " 5.00.....	1,200
Excavation, 2800 " " " .30.....	840
Anchor bolt, plates, etc	340
Land.....	1,000
Total.....	<u>\$13,238</u>

RAISING THE PRESENT RESERVOIR

to 15 feet above its present level, or to elevation 192.

Excavation and Embankment..	}	6,700 cubic yards, at \$0.30.....	\$ 2,010
Concrete,		12,000 " " " 6.00.....	72,000
Brick Masonry,		1,400 " " " 15.00.....	21,000
Asphalt,		3,350 square " " .50.....	1,675
Total.....			\$96,685

Capacity after raising will be 10,000,000 gallons.

ENLARGING AND REINFORCING THE HIGH SERVICE DISTRIBUTION.

600 feet of 20-inch pipe, at \$3.70.....	\$ 2,220
22,400 " 16 " " " 2.80.....	62,720
16,100 " 12 " " " 2.00.....	32,200
1,800 " 10 " " " 1.50.....	2,700
13,100 " 8 " " " 1.20.....	15,720
4,900 " 6 " " " 0.90.....	4,410
	<hr/>
	\$119,970
Special castings.....	2,202
1-20 inch valve and box, at \$125.00.....	\$ 125
14-16 " " " " " 75.00.....	1,050
16-12 " " " " " 49.50.....	792
2 10 " " " " " 37.50.....	75
16- 8 " " " " " 25.50.....	408
8- 6 " " " " " 18.50.....	148
	<hr/>
	2,598
River crossing, 800 feet 16-in pipe, at \$3 extra,	2,400
	<hr/>
Total.....	\$127,170

REINFORCING LOW SERVICE DISTRIBUTION.

1,300 feet of 36-inch pipe, at \$9.30.....	\$12,090	
2,700 " 30 " " " 7.00.....	18,900	
1,400 " 24 " " " 4.80.....	6,720	
4,600 " 20 " " " 3.70.....	17,020	
7,000 " 16 " " " 2.80.....	19,600	
15,300 " 12 " " " 2.00.....	30,600	
4,800 " 10 " " " 1.50.....	7,200	
14,600 " 8 " " " 1.20.....	17,520	
24,000 " 6 " " " 0.90.....	21,600	
<u>75,700</u>		\$151,250
Special castings.....		4,900
3-36 inch valves and boxes, at \$510.00...\$	1,530	
3-30 " " " " " 325.00. :	975	
2-24 " " " " " 190.00.!	380	
4-20 " " " " " 125.00...	500	
6-16 " " " " " 75.00...	450	
18-12 " " " " " 49.50...	891	
8-10 " " " " " 37.50...	300	
20- 8 " " " " " 25.50...	510	
32- 6 " " " " " 18.50...	592	
		6,128
River crossing, 800 feet 24-inch pipe, at \$4 extra,		3,200
" " 800 " 20 " " " 3.50 "		2,800
Placing the 36-inch pipe into the reservoir,		3,000
<u>Total.....</u>		\$171,278

ESTIMATES OF THE COST OF OPERATING THE WORKS.

At the Filter Station.

Filtering 15,000,000 gallons per day.

Pump duty, 100,000,000 foot pounds per 100 pounds of coal.

Cost of coal, \$2.60 per net ton delivered in bin.

Annual cost of coal.....\$ 4,000

REPORT OF WATER EXPERTS.

Three engineers, one \$1,200, two \$1,000. \$3,200
 Three firemen and two helpers..... 2,800
 Repairs, oil, waste, etc..... 1,920
 Filtering water at \$3 per million gallons. 16,425

Total cost at filter station..... \$ 28,345

AT PRESENT PUMPING STATION.

Pumping 15,000,000 gallons per day.

Cost of coal, \$2.60 per net ton delivered in bin.

Pump duty, 100,000,000 foot pounds per 100 pounds of coal.

Annual cost of coal, high service, 8,000,-

000 per day.....\$ 9,047

Annual cost of coal, low service, 7,000,000

per day..... 5,455

First engineer..... 2,000

Three engineers.. 2,900

Three firemen and three helpers..... 4,140

Repairs, oil, waste, etc..... 3,300

Total cost at present station..... \$ 26,842

Total cost..... 55,187

Capitalized cost, \$55,187 at 5% \$1,103,740

ESTIMATE OF COST.

For immediate needs.

Filter plant..... \$ 779,000

Additions to present pumping plant..... 107,500

Lengthening stand-pipe..... 1,860

Reinforcing distribution system..... 77,000

\$ 965,360

Engineering and contingencies, 10%..... 96,530

Total \$1,062,000

DETAIL OF ESTIMATE OF FILTERS ABOVE SOLDIERS' HOME.

Excavation,	70,000 cubic yards, at \$0.30	\$ 21,000
Fill,	47,000 " " " .20	9,400
Concrete,	27,000 " " " 6.00	162,000
Centers extra,	350,000 square feet, " .08	28,000
Brick piers,	2,000 cubic yards, " 12.00	24,000
Sand and gravel,	62,000 " " " 1.50	93,000
Iron pipe, gates and vitrified pipe		41,500
Paving court		6,000
Covers, castings and placing		5,000
Sand runs and washers		4,000
8-inch pipe to sand washers		1,000
Regulator houses and laboratory		18,000
Total		<u>\$407,900</u>

PRICES.

In making the estimates of cost we have used prices on various parts of the work from 20 to 100 per cent. higher than were current a year ago, to cover the recent advance in prices. Prices have fluctuated very rapidly of late, and much uncertainty exists as to their future course. It must therefore be distinctly understood that these estimates relate to current prices, and are subject to changes with the market prices of the various supplies entering into the plant, and to changes in the price of labor.

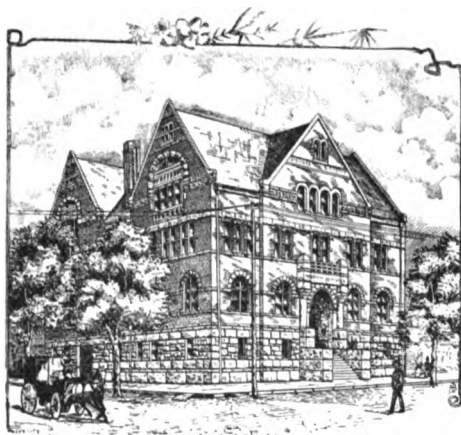
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ANNUAL REPORT
OF
THE BOARD OF POLICE
AND
FIRE COMMISSIONERS



OF THE CITY OF
GRAND RAPIDS
MICHIGAN
For the Year Ending April 30, 1900

WEST MICHIGAN PRINTING CO.
GRAND RAPIDS, MICH.



BOARD ORGANIZATION.

FOR THE YEAR ENDING APRIL 30th, 1900.

WILLIAM B. WESTON,
PRESIDENT.

B. F. McREYNOLDS,
SECRETARY.

MEMBERS.

WILLIAM B. WESTON, 1900. **LEWIS H. WITHEY, 1902.**

STEPHEN A. SEARS, 1901. **CHARLES A. HAUSER, 1903.**

WILLIAM H. BOYNS, 1904.

COMMITTEES.

FINANCE

CHARLES A. HAUSER.

WILLIAM H. BOYNS.

PROPERTY.

LEWIS H. WITHEY.

CHARLES A. HAUSER.

DISCIPLINE.

STEPHEN A. SEARS.

LEWIS H. WITHEY.

RULES AND REGULATIONS.

WILLIAM H. BOYNS.

LEWIS H. WITHEY.

POLICE HEADQUARTERS.

WILLIAM H. BOYNS.

STEPHEN A. SEARS.

BOARD ORGANIZATION.

FOR THE YEAR ENDING APRIL 30th, 1901.

STEPHEN A. SEARS,

PRESIDENT.

B. F. McREYNOLDS,

SECRETARY.

MEMBERS.

STEPHEN A. SEARS, 1901.

CHARLES A. HAUSER, 1903.

LEWIS H. WITHEY, 1902.

WILLIAM H. BOYNS, 1904.

DENIS L. CAMPAU, 1905.

COMMITTEES.

FINANCE.

LEWIS H. WITHEY.

DENIS L. CAMPAU.

PROPERTY.

WILLIAM H. BOYNS.

LEWIS H. WITHEY.

DISCIPLINE.

CHARLES A. HAUSER.

WILLIAM H. BOYNS.

RULES AND REGULATIONS.

DENIS L. CAMPAU.

LEWIS H. WITHEY.

POLICE HEADQUARTERS.

DENIS L. CAMPAU.

WILLIAM H. BOYNS.

OFFICE OF THE
BOARD OF POLICE AND FIRE
COMMISSIONERS.

GRAND RAPIDS, MICH., April 30, 1900.

To the Honorable Board of Police and Fire Commissioners:

GENTLEMEN—I respectfully submit for your inspection a report of affairs pertaining to the several departments under your control for the year ending April 30, 1900.

Respectfully,
B. F. McREYNOLDS,
Secretary.

EXAUGURAL ADDRESS
OF
PRESIDENT WM. B. WESTON.

GRAND RAPIDS, MICH., May 4, 1900.

To the Honorable Board of Police and Fire Commissioners:

GENTLEMEN—With this meeting my official relations with you will cease, and I will no longer be a servant of the city to have my acts chided or approved as they may offend or please the general public.

My five-year term as a member of this Board has seemed short to me. I have enjoyed the work and have felt it an honor to sit as a member of a body that has succeeded in building up such departments as are the fire and police of Grand Rapids. During my term I have been absent from but thirteen regular meetings and have attended all special meetings, I believe.

It is not my intention to indulge in retrospect, nor to usurp the province of my successor and make recommendations for the future, however my interest in the success and welfare of the two departments in whose conduct I have had a small part, is

so great, that I cannot refrain from referring to them briefly as I sever my connection with them—in all probability forever.

It is conceded by all citizens, whether friendly to the departments or otherwise, that they have earned a national reputation for their efficiency, for their absolute freedom from scandal or corruption, and for being kept entirely aloof from the blighting influence of politics. When the departments were placed under the control of a non-partisan board, such men as W. H. Powers, Lewis H. Withey, Geo. G. Briggs, Geo. W. Gay and Israel C. Smith entered upon the work of formulating rules and regulations to govern them, calculating to carry out the spirit and intent of the creative act, which had for its purpose the removal, as far as possible, from political influence, these two important branches of the city's service. That these men succeeded well in establishing such a policy, (which has since been strictly adhered to), the departments themselves stand as living proofs. No man's religion or politics has ever been a consideration with the Board, but each man has stood upon his merits and his value as an officer or as a fireman. The like or dislike of any commissioner has never been permitted to weigh for or against men, and appointments or dismissals have not been made as a personal favor or to gratify individual wishes. There have been no promises of promotion or for increase of salary to members of the departments for the purpose of influencing their votes for or against candidates for office, and each member has been left free to express himself at the polls according to his personal inclination and

wishes. Qualification, fitness and loyalty have insured permanent positions, while the opposite has invariably brought dismissal. Hence, the men work without fear or intimidation, knowing that so long as they perform their duty the Board will stand back of them and support them. They have not felt the necessity of securing influence or of having a "pull" in order to retain their positions. This has been the secret of the success of the departments. It is this policy that has brought them up to their present high standard of efficiency and earned for them the admiration of our own citizens, as well as fame abroad. Let us hope that good citizenship and the welfare of the service, rather than personal feelings, will influence the action of the gentlemen who will be chosen to succeed us in the future, and that the good work that has been done in building up, may not be undone by tearing down.

In taking leave of you, gentlemen, I desire to acknowledge the courtesy and consideration that you have at all times extended to me, and to assure you that I shall ever remember my relations with you, with pleasure.

To Secretary McReynolds, to the heads of the departments, and to each of the men under them, I wish to express my appreciation of their courtesy, gentlemanly deportment and loyalty to the service at all times. The splendid discipline that has prevailed throughout, the intelligence, ability and faithfulness with which each member has performed his duty, is a matter of pride to every citizen, and it is a pleasure to speak of them in praise in my last official utterance.

Again, gentlemen, assuring you of my appreciation of our pleasant relations in the past,

Respectfully,

WM. B. WESTON,

President.

Commissioner Withey moved that the address be accepted and spread upon the records of the Board.

Adopted.

INAUGURAL ADDRESS
OF
PRESIDENT STEPHEN A. SEARS.

GRAND RAPIDS, MICH., May 11, 1900.

To the Honorable Board of Police and Fire Commissioners:

GENTLEMEN—In assuming the position of President, I find the two departments with which we have to deal, in such excellent condition as to preclude the necessity of making recommendations or suggestions for their future management. The heads of the departments have proved themselves to be competent and efficient, while those filling subordinate positions have been loyal to the service and have shown a willingness to obey such rules as have been laid down for their guidance and which are necessary in order to have that discipline required in all departmental bodies. There has been little or no friction among the men and nothing has been done calculated to create restlessness or uneasiness among them. My only recommendation in this connection is that the present harmonious and satisfactory conditions may be continued.

In his inaugural message, read to this Board in 1894, President Chas. H. Bender, recommended that the patrol boxes now in use in the down town districts be removed to places now remote from regular police beats and that keys be left in con-

venient places near their locations, so that citizens might be able to call the police when needed, and that there be placed in the present locations of the old patrol boxes, modern wall boxes such as are in use in the larger cities. I am favorably impressed with this recommendation and would like to see steps taken in the direction of its adoption. The old boxes are unsightly and disfigure the corners where they are located to an extent to provoke, in several instances, protests from adjacent property owners.

I trust the Common Council will make the necessary appropriation for the erection of an engine house upon the Diamond street lot now owned by the city, but not by drawing upon the funds asked for the maintainance of the Police and Fire Departments during the next fiscal year. These budgets are as small as their demands will warrant and they should not be disturbed.

Hoping that the discipline and efficiency of the two Departments under our control will continue at their present high standard, and that they may each work with that object in view, I will announce your committee assignments as follows:

Finance—Commissioners Boyns and Campau.

Property—Commissioners Hauser and Boyns.

Men and Discipline—Commissioners Withey and Hauser.

Rules—Commissioners Campau and Withey.

House—Commissioners Campau and Boyns.

Respectfully submitted,

S. A. SEARS.

Commissioner Withey requested, owing to pressing business engagements during the coming

year, that the President rearrange the committees, advancing other Commissioners to more important committees, giving to him minor committee work; thereupon.

The President announced the committee assignments as follows:

Finance—Commissioners Withey and Campau.

Property—Commissioners Boyns and Withey.

Men and Discipline—Commissioners Hauser and Boyns.

• Rules—Commissioners Campau and Withey.

House—Commissioners Campau and Boyns.

DEPARTMENT OF POLICE
OF THE CITY OF GRAND RAPIDS.

May 25, 1900.

To the Honorable Board of Police and Fire Commissioners:

GENTLEMEN—I beg leave to submit the following report of the work done by this department for the year ending April 30, 1900:

The tables presented give in detail the particulars, which I think will compare favorably with former reports.

The past year has not been marked by any special events, the time covered by this report having been remarkably free from crime.

Thanking the Board and its Secretary for the assistance and favors received in the past, and hoping to merit a continuance of the same, I am,

Very respectfully,

HARVEY O. CARR,
Supt. Police.

STATISTICS.

PERTAINING TO THE POLICE DEPARTMENT, TOGETHER WITH MISCELLANEOUS WORK.

THE FORCE ON APRIL 30, 1900.

RANK	NAME	NATIVITY	DATE OF APPOINTMENT	Years' Service
Superintendent ...	Harvey O. Carr	Indiana	Feb. 24, 1893	7
Captain	John Johnson	England ...	Sept. 1, 1879	20
Lieutenant	Wm. J. Hurley ...	England ...	Sept. 5, 1881 ...	18
First Sergeant...	T. J. McCarthy ...	New York..	July 28, 1887 ...	13
Second Sergeant..	Dennis Millalee	Canada.....	March 6, 1884.....	16
Third Sergeant...	Wm. M. Warner.....	Ohio.....	Nov. 4, 1892.....	7
Detective	Cornelius Gast.....	Holland	May 12, 1879.....	27
Detective	Jos. U. Smith.....	Canada.....	May 14, 1885.....	14
Detective	Jerry E. Darr.....	Ohio.....	Sept. 25, 1891.....	8
Detective	S. G. Jakeway	Michigan...	Dec. 22, 1887.....	12
Detective	Wm. Youngs.....	Michigan...	Feb. 1, 1895.....	5
Detective	A. N. McDonald	Canada.....	Nov. 13, 1890.....	9
Court Officer.....	Thos. C. Price	New York..	Feb. 1, 1883.....	17
Truant Officer ...	Frank B. Fee.....	New York..	Feb. 26, 1885.....	15
Wagon Conductor	John Schobey.....	New York..	Dec. 16, 1882.....	18
Wagon Conductor	John Conlon	Canada.....	Sept. 16, 1886.....	13
Wagon Conductor	N. J. Van Dine	New York..	May 13, 1887.....	12
Special Officer...	James Mooney	Ireland ...	Aug. 13, 1885.....	13
Special Officer...	Thos. Howell	Michigan...	Sept. 10, 1885.....	14
Turnkey	Geo. W. Traxler	New York..	Aug. 6, 1881.....	18
Turnkey	Patrick Doherty. ..	Ireland.....	May 17, 1883.....	16
Patrolman.....	Geo. H. Wells.....	Penn.....	July 26, 1883.....	16

THE FORCE ON APRIL 30, 1900—Continued.

RANK	NAME	NATIVITY	DATE OF APPOINTMENT	Years' Service
Patrolman	Timothy Madigan...	Michigan...	March 5, 1885.....	15
Patrolman.....	Wm. Duga.....	Michigan...	June 17, 1887.....	12
Patrolman	Alfred Hemstreet....	New York...	Sept. 23, 1887.	12
Patrolman	M. H. Connor	Canada.....	Dec. 27, 1888....	11
Patrolman	Fred E. Emery	Canada.	March 27, 1890.....	10
Patrolman	David Dunlop.....	Scotland...	March 27, 1890.....	10
Patrolman	Emil Scheneman ..	Germany...	April 10, 1890.....	10
Patrolman	W. H. Brown	Michigan...	June 23, 1890.	9
Patrolman	John A. Lverage....	Michigan...	July 26, 1890....	9
Patrolman	S. A. Welch	Michigan...	July 31, 1890	9
Patrolman	Wm. H. Steed	Penn.....	Oct. 10, 1890	9
Patrolman	S. F. Stecklee.....	Michigan...	March 26, 1891.	9
Patrolman	Geo. W. Spring.....	Michigan...	March 26, 1891.	9
Patrolman	James Whelan.....	Michigan...	Oct. 30, 1891.	8
Patrolman	Peter Viergever	Michigan...	Oct. 30, 1891	8
Patrolman	Wm. Tatroe	Michigan...	Jan. 8, 1892.	8
Patrolman	Warren Sturgis....	Canada.....	Feb. 19, 1892.....	8
Patrolman	Chas. R. Hunt	New York...	April 22, 1892.	8
Patrolman	E. S. Thompson	Missouri...	August 23, 1892....	7
Patrolman	C. A. Atwood	Michigan...	Nov. 4, 1892	7
Patrolman	L. A. Smith	Michigan...	Nov. 4, 1892	7
Patrolman	James Reardon.....	Michigan...	Dec. 22, 1892.....	7
Patrolman	H. T. Dean.....	New York...	Dec. 11, 1892.....	7
Patrolman	Jos. A. Myers.....	Michigan...	March 25, 1893....	7
Patrolman	John T. Byrne	Michigan...	June 30, 1893	6
Patrolman	Henry Hickox	Michigan...	June 30, 1893	6
Patrolman	Geo. Worden.....	Michigan...	May 31, 1894.....	5
Patrolman	A. E. Campbell	Mass.....	June 9, 1894	5
Patrolman	Geo. H. Haessig	Missouri...	June 9, 1894	5
Patrolman	Theo. Spannagel....	Ohio.....	Oct. 26, 1894	5
Patrolman	Millard Davis.....	New York...	Oct. 26, 1894	5
Patrolman	Frank L. Kirby....	Michigan...	Oct. 26, 1894	5

THE FORCE ON APRIL 30, 1900—Continued.

RANK	NAME	NATIVITY	DATE OF APPOINTMENT	Years' Service
Patrolman	Martin O'Mara	New York..	Oct. 26, 1894	5
Patrolman	C. O. Boyd.....	Michigan..	Oct. 26, 1894	5
Patrolman	Wm. A. Brennan	New York..	Oct. 26, 1894	5
Patrolman	A. E. Fraser	New York..	Oct. 26, 1894	5
Patrolman	M. Fitzpatrick	Michigan..	June 21, 1895	4
Patrolman	Stephen Hale.....	Michigan..	June 21, 1895	4
Patrolman	Henry Slater	Canada....	June 21, 1895	4
Patrolman	Geo. B. Wells.....	Michigan..	June 21, 1895	4
Patrolman	John Halloran	Michigan..	Oct. 25, 1895	4
Patrolman	Chas. Berry	New Jersey	Oct. 25, 1895	4
Patrolman	John Minogue.....	Michigan..	Oct. 25, 1895	4
Patrolman	A. F. Steward.....	Michigan..	Oct. 25, 1895	4
Patrolman	John Viergever	Michigan..	Oct. 25, 1895	4
Patrolman	John M. Kelley.....	Michigan..	Oct. 25, 1895	4
Patrolman	Thos. Croteau	Canada....	Nov. 30, 1895	4
Patrolman	L. D. Van Velsor....	Michigan..	July 3, 1896	3
Patrolman	Jos. Morrissey.....	Michigan..	July 3, 1896	3
Patrolman	Samuel Slater	Canada....	April 2, 1897	3
Patrolman	T. D. Blinston	Michigan..	April 2, 1897	3
Patrolman	John O'Leary	Ohio.....	April 2, 1897	3
Patrolman	Ralph Stuit.....	Holland....	April 2, 1897	3
Patrolman	A. E. Pelton	Michigan..	April 2, 1897	3
Patrolman	Frank J. Doran	Michigan..	April 2, 1897	3
Patrolman	John Mackie.....	Sootland ..	Dec. 24, 1897	2
Patrolman	Benj. Rankins	Michigan..	Dec. 24, 1897	2
Patrolman	O. N. Anderson	Sweden ...	Dec. 24, 1897	2
Patrolman	Edward Kilmer	Michigan..	Dec. 24, 1897	2
Patrolman	Thos. Kelley.....	Michigan..	Dec. 24, 1897	2
Patrolman	J. J. Quick	Michigan..	Dec. 24, 1897	2
Patrolman	Chas. J. B. Larson ..	Michigan..	Nov. 21, 1898	1
Patrolman	Jesse Hammond. ...	Indiana ...	Nov. 21, 1898	1
Patrolman	E. J. Dibble.....	Michigan..	Nov. 21, 1898	1

THE FORCE ON APRIL 30, 1900—Continued.

RANK	NAME	NATIVITY	DATE OF APPOINTMENT	Years' Service
Patrolman	Frank Damouth	Michigan...	Nov. 21, 1898	1
Patrolman	L. McGarvey	Michigan...	Nov. 21, 1898	1
Patrolman	P. W. Porter	Penn	Nov. 21, 1898	1
Patrolman	A. J. Pohl	Michigan...	Nov. 21, 1898	1
Patrolman	Burley Bailey	Michigan...	Nov. 21, 1898	1
Patrolman	C. Damouth	Michigan...	Nov. 21, 1898	1
Office Clerk	Fred W. Weber	Michigan...	Sept. 15, 1885	14
Office Clerk	John Tryzelaar	Michigan...	July 21, 1894	5
Poundmaster	John McCarthy	New York..	Sept. 25, 1891	8
Driver No. 1	Jas Howell	Michigan...	Sept. 18, 1883	17
Driver No. 1	Thos. Maher	Ireland	Sept. 26, 1880	19
Driver No. 2	Stephen Bird	Michigan...	Sept. 30, 1898	1
Driver No. 2	Fred Hatch	Michigan...	Sept. 30, 1898	1
Ass't Poundmaster	Pat. Malone	Michigan...	Feb. 14, 1900 .....	...
Signal Operator	Roy Lawyer	Michigan...	July 23, 1895	4
Signal Operator	Herman Daverman	Holland	Feb. 19, 1897	3
Signal Operator	Milo B. Gilman	Michigan...	Feb. 6, 1899	1
Janitor	Matt. Esch	Michigan...	Nov. 13, 1890	9
Ass't Janitor	Peter Esch	Michigan...	June 12, 1891	8
Matron	Charlotte Collier	England ...	April 23, 1897	3

DEPARTMENT ORGANIZATION.

Superintendent.....	1
Captain.....	1
Lieutenant.....	1
Sergeants.....	3
Detectives	6
Truant Officer	1
Court Officer.....	1
Patrol Wagon Conductors.....	3
Turnkeys.....	2
Patrolmen	73
Office Clerks.....	2
Patrol Wagon Drivers No. 1.....	2
Patrol Wagon Drivers No. 2.....	2
Poundmaster.....	1
Assistant Poundmaster.....	1
Signal Operators.....	3
Janitor	1
Assistant Janitor.....	1
Matron	1
Total.....	<hr/> 106

RESIGNATIONS.

NAME.	RANK.	DATE.
F. D. Randall.....	Patrolman	May 11, 1899
Hiram Whitcomb.....	Patrolman	July 20, 1899
C. W. Jones.....	Patrolman	Nov. 10, 1899
Thos. Pomeroy	Patrolman	Jan. 1, 1900

CASES OF DISCIPLINE.

No.	RANK.	CHARGE.	DISPOSITION.
1	Patrolman..	Conduct unbecoming an officer..	Dismissed.
1	Patrolman..	Drinking while on duty.....	Placed temporarily on reduced salary.
2	Patrolman..	Loitering on beat.....	Loss of pay during suspension.
2	Patrolman..	Intoxication.. ..	Placed temporarily on reduced salary.
1	Patrolman..	Insubordination	Placed temporarily on reduced salary.
1	Patrolman..	Intoxication	Dismissed.
1	Patrolman..	Intoxication	Case pending.
1	Patrolman..	Absent without leave.....	Loss of pay during suspension.

NUMBER OF DAYS LOST

BY SICKNESS, ABSENCE WITH LEAVE AND SUSPENSIONS.
DURING THE YEAR.

RANK	NAME	SICKNESS	DISABILITY	ABSENCE WITH LEAVE	SUSPENSIONS	TOTAL LOST OF TIME
Captain	John Johnson					
Lieutenant	Wm. J. Hurley					
Sergeant	T. J. McCarthy			4		4
Sergeant	Dennis Millaley					
Sergeant	Wm. M. Warner					
Detective	Cornelius Gast	5				5
Detective	Joseph U. Smith					
Detective	Jerry E. Darr	1				1
Detective	S. G. Jakeway					
Detective	Wm. Youngs			6		6
Detective	A. N. McDonald					
Court Officer	T. C. Price	5		1		6
Truant Officer	Frank B. Fee	1		1		2
Wagon Conductor	John Scobey	3				3
Wagon Conductor	John Conlon	6½				6½
Wagon Conductor	N. J. Van Dine			11		11
Turnkey	Geo. W. Traxler					
Turnkey	Patrick Doherty			2		2
Special Officer	James Mooney					
Special Officer	Thos. Howell					
Clerk	F. W. Weber					
Clerk	John Tryzelaar	10				10
Patrolman	Geo. H. Wells	2				33
Patrolman	Timothy Madigan					5½

NO. OF DAYS LOST, ETC.—Continued.

RANK	NAME	SICKNESS	DISABILITY	ABSENCE WITH LEAVE	SUSPENSIONS	TOTAL LOSS OF TIME
Patrolman	Wm. Duga.....	1	.....	19½	.....	20½
Patrolman	M. H. Connor	3½	.....	3½	.....	7½
Patrolman ..	Thos. Pomeroy	4½	.....	13	.....	17½
Patrolman	Fred E. Emery	7	.....	23	.....	30
Patrolman ..	Alfred Hemstreet.....	.....	.....	17½	.....	17½
Patrolman ..	David Dunlop .....	.....	.....	11	.....	11
Patrolman	E. Scheneman	1	.....	.....	.....	1
Patrolman	Wm. H. Brown	19	3½	4	.....	26½
Patrolman ..	John A. Loverage	21	.....	.....	.....	21
Patrolman	S. A. Welch	11½	.....	14½	.....	26
Patrolman	Wm. H. Steed.....	1½	.....	10	.....	11½
Patrolman ..	S. F. Stecklee.....	.....	.....	3½	.....	3½
Patrolman ..	Geo. W. Spring.....	5½	.....	3	.....	8½
Patrolman ..	Jas. Whelan	½	.....	11½	.....	12
Patrolman ..	Hiram Whitcomb.....	7	.....	.....	.....	7
Patrolman	Peter Viergever.....	1	.....	2	.....	3
Patrolman	Wm. Tatroe	1	.....	6	.....	7
Patrolman	Warren Sturgis.....	.....	.....	.....	.....	.....
Patrolman	Chas. R. Hunt.....	1	.....	3½	.....	4½
Patrolman	E. S. Thompson	30½	.....	54	.....	84½
Patrolman ..	C. A. Atwood	½	.....	5	.....	5½
Patrolman	Leroy A. Smith.....	13½	½	31½	.....	48½
Patrolman	James Reardon.....	1	.....	½	.....	1½
Patrolman	B. T. Dean	6½	3	4½	.....	14½
Patrolman	John T. Byrne.....	1	.....	1	.....	2
Patrolman	Jos. A. Myers.....	2¾	.....	9½	.....	12¾
Patrolman	Henry Hickox.....	16½	.....	5½	.....	22
Patrolman	Geo. Worden.....	1½	.....	11	.....	12½
Patrolman	Geo. H. Haessig.....	.....	.....	6	.....	9½
Patrolman	A. E. Campbell	3½	.....	25	.....	31½
Patrolman	Theo. Spannegel.....	.....	.....	.....	.....	.....
Patrolman	Millard Davis.....	1½	.....	3½	.....	4½

NO. OF DAYS LOST, ETC.—Continued.

RANK	NAME	SICKNESS	DISABILITY	ABSENT WITH LEAVE	SUSPENSIONS	TOTAL LOSS OF TIME
Patrolman	Martin O'Mara	20½	.....	4	.....	24½
Patrolman	C. O. Boyd	1	.....	17	.....	18
Patrolman	Frank L. Kirby	½	.....	15½	.....	15½
Patrolman	Wm. A. Brennan .....	.....	.....	16	.....	16
Patrolman	A. E. Fraser	8½	.....	17	.....	25½
Patrolman	Stephen Hale	1	.....	2½	.....	3½
Patrolman	M. Fitzpatrick	1	.....	1	.....	2
Patrolman	Henry Slater	2½	.....	3	.....	5½
Patrolman	Geo. B. Wells	8	.....	12½	.....	20½
Patrolman	Chas. Berry	2½	.....	5	.....	7½
Patrolman	John Minogue	10	.....	6	.....	16
Patrolman	John Halloran	¾	.....	5	.....	5¾
Patrolman	A. F. Steward	9	.....	10½	.....	19½
Patrolman	John Viergever	3½	.....	3	.....	6½
Patrolman	J. M. Kelley	13	.....	4	15	32
Patrolman	Thomas Croteau	1	.....	10½	.....	11½
Patrolman	L. D. Van Velsor	9	.....	7	12	28
Patrolman	Joseph Morrissey	1½	.....	1¾	.....	2¾
Patrolman	T. D. Blinston	12	.....	9½	.....	21½
Patrolman	A. E. Pelton	1¾	.....	1	.....	2¾
Patrolman	Ralph Stuit	1½	.....	6½	.....	8
Patrolman	Samuel Slater	1½	.....	12	42	55½
Patrolman	John O'Leary	3	.....	19½	.....	22½
Patrolman	Frank J. Doran	30	.....	2	.....	32
Patrolman	Ben Rankins	8½	.....	15	.....	23½
Patrolman	Wm. D. Kennedy	5	.....	22	31	58
Patrolman	John J. Quick	3	.....	17½	.....	20½
Patrolman	Thomas Kelley	2¾	.....	.....	13	15¾
Patrolman	Ed. Kilmer	11	.....	4½	.....	15½
Patrolman	O. F. Anderson .....	.....	.....	12½	.....	12½
Patrolman	John Mackie .....	.....	.....	5	.....	5
Patrolman	Anthony J. Pohl	6	1	3½	27	34½

NO. OF DAYS LOST, ETC.—Continued.

RANK	NAME	SICKNESS	DISABILITY	ABSENCE WITH LEAVE	SUSPENSIONS	TOTAL LOSS OF TIME
Patrolman	L. McGarvey.....	28	.....	10	17	55
Patrolman	Burley Bailey....	4½	.....	18½	.....	17½
Patrolman	Chester W. Jones.....	16½	.....	2	.....	18½
Patrolman	Frank Damouth.....	51	.....	28½	.....	74½
Patrolman	C. J. Dibble.....	11½	.....	23	.....	34½
Patrolman	Preston W. Porter ..	9½	.....	17	.....	26½
Patrolman	Chas. J. B. Larson..	1	.....	17½	.....	18½
Patrolman	J. M. Hammond.....	1½	.....	1½	.....	3½
Patrolman	Joseph L. Stamp ...	1	.....	8	6	10
Patrolman	F. D. Randall	2½	.....	.....	.....	2½
Patrolman	C. Damouth... ..	12½	1	8½	.....	23½
Driver.....	Jas. Howell.....	365	.....	.....	.....	365
Driver.	Thos. Maher.....	.....	.....	.....	.....	.....
Driver.....	Stephen Bird.....	.....	.....	.....	.....	.....
Driver	Fred Hatch	141	.....	.....	.....	141
Poundmaster	John McCarthy. .	.....	.....	.....	.....	.....
Asst Poundmaster	Patrick Malone...	.....	.....	.....	.....	.....
Operator.....	Roy Lawyer.....	.....	.....	.....	.....	.....
Operator	H. J. Daverman.....	.....	.....	.....	.....	.....
Operator.	Milo Gilman....	.....	.....	.....	.....	.....
Janitor.....	Matt. Esch.....	.....	.....	.....	.....	.....
Asst. Janitor.....	Peter Esch.....	.....	.....	.....	.....	.....
Matron.....	Charlotte Collier.....	.....	.....	.....	.....	.....
Total! .....		.....	.....	.....	.....	1946

NUMBER OF PERSONS

ACCOMMODATED WITH LODGING DURING THE YEAR.

1899—May	13
June.....	16
July	20
August.....	16
September.....	45
October.....	42
November ..	63
December.....	77
1900—January	93
February.....	76
March.....	137
April.....	87
Total.....	685

MISCELLANEOUS WORK.

Accidents reported—assistance rendered	165.
Arrests made on warrant	446
Arrests made without warrant	1,150
Arrests made for outside officers.	29
Arrests made on suspicion	125
Assistance rendered to persons having fits on street	15
Bursted water pipes discovered and reported	7
Coroner notified of mysterious deaths	1
Coroner notified of accidental deaths	2
Coroner notified of sudden deaths	3
Coroner notified of suicides	5
Doors found open—owners notified	373
Doors found open and secured	1,013
Dangerous places in streets reported to mar- shal	59
Dangerous places in sidewalks reported to marshal	187
Dangerous and broken electric wires reported	44
Dead animals reported	23
Deadly assault reported	2
Dogs ordered killed	21
Disturbances called to—without arrests	386
Disturbances called to—with arrests	2

SUMMARY OF POLICE ALARM TELEGRAPH AND TELEPHONE SERVICE

PATROL WAGONS	1900												TOTAL
	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	JANUARY 1900	FEBRUARY	MARCH	APRIL	
Number of reports received from patrolmen	36501	34821	32246	35104	34250	33969	34251	35906	34573	31848	38105	32006	412951
Number of box calls.	66	72	87	64	90	66	83	73	41	52	57	74	826
Number of telephone calls.	43	33	37	43	36	35	39	33	25	31	38	40	473
Number of local calls.	19	17	14	6	14	11	11	12	8	7	12	14	145
Number of fire alarm calls.	33	17	14	30	9	17	13	25	14	17	12	13	204
Number of runs made.	156	139	152	143	149	131	144	143	88	107	119	141	1612
Number of miles traveled.	296	226	153	236	222	202	225	234	104	174	175	221	2440
Accidents reported—assistance rendered. ....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1	2
Aged persons taken home. ....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Destitute persons brought to station. ....	.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....	1	3
Destitute persons taken home. ....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Demented persons taken home. ....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1
False alarms. ....	.....	.....	1	1	1	.....	1	1	.....	.....	1	.....	6
Insane persons brought to station. ....	.....	.....	.....	1	.....	2	2	1	1	.....	.....	.....	7
Insane persons taken to jail for safekeeping. ....	.....	.....	1	3	.....	.....	4	.....	4	.....	.....	1	13
Insane persons taken home. ....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1

SUMMARY OF POLICE ALARM, ETC.—Continued.

PATROL WAGONS	TOTAL											
	MAY 1899	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	JANUARY 1900	FEBRUARY	MARCH	APRIL
Lost children brought to station.	20	2	7	3	11	1	3	3	1	.....	.....	2
Lost children taken home.	4	.....	3	.....	3	.....	.....	.....	.....	.....	1	2
Lost adults brought to station. ....	.....	1	2	1	.....	.....	1	.....	.....	.....	1	.....
Lost adults taken home. ....	.....	1	1	.....	1	.....	.....	.....	.....	.....	.....	.....
Lost or stolen property brought to station (No. trips) .....	.....	.....	.....	1	.....	.....	2	1	2	.....	.....	.....
Lodgers brought to station.	2	1	3	.....	1	6	.....	1	3	.....	.....	1
Number of runs made without report.	15	6	10	6	1	2	1	2	4	9	3	4
On matters of investigation. ....	.....	.....	1	.....	1	3	.....	.....	.....	.....	.....	.....
Persons brought to station for investigation. ....	.....	3	1	4	5	.....	3	1	.....	.....	1	1
Persons brought to station for safekeeping. ....	.....	5	.....	1	2	2	1	2	.....	2	.....	2
Persons taken to jail for safekeeping. ....	.....	.....	.....	.....	.....	.....	.....	1	.....	2	3	.....
Prisoners brought to station.	102	97	103	98	107	99	102	103	57	80	101	109
Reported burglars—gone on arrival.	1	.....	1	.....	1	1	.....	.....	.....	1	.....	.....
Reported drunk or disorderly persons—gone on arrival.	1	1	7	1	3	3	3	1	.....	1	1	1
Reported disturbance—all quiet on arrival.	7	9	5	6	3	2	4	2	2	.....	6	2
Reported demented persons—gone on arrival. ....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Reported demented persons—gone on arrival. ....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2

SUMMARY OF POLICE ALARM, ETC.—Continued.

PATROL WAGONS	1899												TOTAL
	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	
Reported lost children—cared for before arrival.....	..	2	1	1	1	..	..	..	..	1	..	1	7
Runaway boys brought to station.....	..	..	..	1	2	5	..	..	..	..	..	..	8
Sick or injured brought to station .....	..	..	..	..	1	..	..	..	..	1	3	..	5
Sick or injured taken to hospital.....	1	..	..	1	..	1	1	..	2	..	..	..	6
Sick or injured taken home.....	..	..	..	..	3	..	1	..	..	1	1	..	6
Strangers taken to depot	1	..	..	..	..	..	..	..	..	..	..	1	2
Wagon not wanted.....	..	..	..	1	1	..	1	..	..	..	..	1	4

SUMMARY OF POLICE ALARM, ETC.—Continued.

AMBULANCE	1899												TOTAL
	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	JANUARY 1900	FEBRUARY	MARCH	APRIL	
Number of box calls.....	.....	.....	2	3	2	.....	1	1	.....	1	1	1	13
Number of telephone calls.....	9	16	27	36	22	11	19	7	23	12	23	16	221
Number of local calls.....	15	9	21	18	13	13	17	8	11	10	12	9	156
Number of runs made.....	24	25	50	57	37	21	37	16	34	23	33	36	389
Number of miles traveled.....	83	70	154	175	83	64	96	44	97	78	96	80	1119
Ambulance not wanted.....	.....	.....	2	1	3	1	5	3	3	.....	5	4	26
Attempted suicides taken to hospital.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1
Number of runs made without report.....	.....	.....	.....	3	1	.....	1	.....	.....	.....	.....	.....	5
Persons in flis brought to station.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....	2
Persons in flis taken home.....	1	2	3	4	.....	3	.....	1	2	.....	.....	.....	16
Persons in flis taken to hospital.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Persons brought to station for investigation.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1
Prisoners brought to station.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1
Reported sick or injured—gone on arrival.....	1	.....	1	2	1	.....	.....	1	.....	.....	1	.....	7
Reported sick or injured—found dead on arrival.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	2
Sick or injured brought to station.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....	2

SUMMARY OF POLICE ALARM, ETC.—Continued.

AMBULANCE	1900												TOTAL
	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	
Sick or injured taken home	9	14	19	25	14	11	13	5	14	13	19	11	167
Sick or injured taken to hospital.....	13	8	25	16	17	8	18	5	13	9	13	11	156
Sick or injured taken to railroad depot .....	.....	.....	.....	1	.....	.....	.....	.....	.....	1	.....	.....	2
Sick or injured taken to doctor's office .....	.....	.....	.....	1	1	.....	.....	.....	1	.....	.....	.....	3

INVENTORY OF THE POLICE DEPARTMENT

Lot	\$ 12,000 00
Building	54,000 00
Furniture, fixtures, etc.....	5,000 00
Beds, bedding, etc.....	515 00
Cells and furnishings.....	2,050 00
Horses	1,425 00
Wagons and ambulances	1,775 00
Harness, blankets, etc.....	225 00
Belts, badges, etc.....	975 00
Police manuals.....	110 00
Two safes.....	200 00
Rogues' gallery.....	300 00
Sundry articles on hand.....	150 00
	<hr/>
	\$ 78,725 00

CRIMINAL STATISTICS.

Offenses Against Person, *Table No. 1.*

Offenses Against Property, committed with violence, *Table No. 2.*

Offenses Against Property, committed without violence, *Table No. 3.*

Offenses Against License Laws, *Table No. 4.*

Offenses Against Chastity and Morality, *Table No. 5.*

Offenses not included in foregoing, *Table No. 6.*

Recapitulation, *Table No. 7.*

Ages of those Arrested, *Table No. 8.*

Comparative Statement, *Table No. 9.*

Stolen Property, *Table No. 10.*

Detectives' Department, *Table No. 11.*

Disposition of Cases, *Table No. 12.*

Truant Officer's Report.

Occupation of Persons Arrested.

Nativity of Persons Arrested.

TABLE NO. 1—OFFENSES AGAINST THE PERSON.

NATURE OF OFFENSES	SEX		Total	Colored	White	READ AND WRITE		Foreigners	Americans	Minors	Held for Trial	Convicted	Discharged
	Male	Female				Yes	No						
Assault	2	.....	2	1	1	2	.....	.....	2	1	1	.....	1
Assault and battery	68	5	73	2	71	72	1	29	44	11	.....	59	14
Assault, deadly.....	1	.....	1	1	1	1	.....	.....	1	.....	.....	.....	1
Manslaughter.....	1	.....	1	1	1	1	.....	1	.....	.....	.....	.....	1
Murder.....	2	.....	2	.....	2	2	.....	.....	2	.....	2	.....	.....
Rape	5	.....	5	.....	5	5	.....	1	4	2	3	.....	2
Seduction.....	1	.....	1	.....	1	1	.....	1	.....	.....	.....	.....	1
Total.....	80	5	85	3	82	84	1	32	53	14	6	59	20

TABLE NO. 2—OFFENSES AGAINST PROPERTY COMMITTED WITH VIOLENCE

NATURE OF OFFENSES	SEX		Total	Colored	White	READ AND WRITE		Foreigners	Americans	Minors	Held for Trial	Convicted	Discharged
	Male	Female				Yes	No						
Arson .....	.....	1	1	1	1	1	.....	.....	1	.....	1	.....	.....
Burglary	6	.....	6	.....	6	6	.....	.....	6	.....	4	.....	2
Burglary and larceny	10	1	11	3	8	11	.....	2	9	5	11	.....	.....
Malicious destruction	1	.....	1	1	1	1	.....	.....	1	1	.....	1	.....
Total	17	2	19	3	16	19	...	2	17	6	16	1	2

TABLE NO. 3—OFFENSES AGAINST PROPERTY COMMITTED WITHOUT VIOLENCE

NATURE OF OFFENSES	SEX		Total	Colored	White	READ AND WRITE		Foreigners	Americans	Minors	Held for Trial	Convicted	Discharged
	Male	Female				Yes	No						
Appropriating city funds.....	1		1		1	1			1		1		
Embezzlement	9		9		9	9		3	6	3	1	3	5
False pretenses	2	1	3		3	3			3	1		3	
Forgery	4		4		4	4			4		4		
Hotel keepers, defrauding	3		3		3	3			3			3	
Larceny from dwelling	12	1	13	1	12	13		1	13	5	11	2	
Larceny less than \$25.00.....	123	14	137	4	133	133	4	18	119	88	1	101	36
Larceny over \$25.00.....	14	1	15		15	15		2	13	6	9	3	4
Larceny from office	5		5		5	5			5	2	5		
Larceny from person.....	1		1		1	1			1		1		
Larceny from shop.....	4		4		4	4			4	3	4		
Larceny from store.....	7	3	10	1	9	10		3	7	3	8		2
Uttering counterfeit coin.....	1		1		1	1		1					1
Total.....	186	20	206	6	200	202	4	28	178	111	48	114	47

TABLE NO. 4—OFFENSES AGAINST THE LICENSE LAW.

NATURE OF OFFENSES	SEX		Total	Colored	White	READ AND WRITE		Foreigners	Americans	Minors	Held for Trial	Convicted	Discharged
	Male	Female				Yes	No						
Dog law, violation of	1	.....	1	.....	1	1	.....	.....	1	.....	.....	.....	1
Junk dealers' ordinance, violation of	6	.....	6	.....	6	5	1	6	.....	.....	.....	5	1
License law, violation of	2	.....	2	.....	2	2	.....	1	1	.....	.....	2	.....
Liquor law, violation of	2	.....	2	.....	2	2	.....	1	1	.....	1	1	.....
Milk dealers' ordinance, violation of	6	1	7	.....	7	6	1	4	3	.....	7	.....	.....
Peddling without license	11	.....	11	.....	11	9	2	7	4	2	.....	11	.....
Pool and billiard rooms without license.	1	.....	1	.....	1	1	.....	.....	1	.....	.....	1	.....
Saloon open after hours	1	.....	1	.....	1	1	.....	1	.....	.....	1	.....	.....
Saloon open legal holiday	91	.....	91	.....	91	91	.....	31	60	.....	90	.....	1
Saloon open Sunday	1	.....	1	.....	1	1	.....	1	.....	.....	1	.....	.....
Selling liquor to minors	1	.....	1	.....	1	1	.....	.....	1	.....	1	.....	.....
Vehicles without license	1	.....	1	.....	1	1	.....	1	.....	.....	.....	1	.....
Total.....	124	1	125	.....	125	121	4	53	72	2	101	21	3

TABLE NO. 5—OFFENSES AGAINST CHASTITY AND PUBLIC MORALITY.

NATURE OF OFFENSES	SEX		Total	Colored	White	READ AND WRITE		Foreigners	Americans	Minors	Held for Trial	Convicted	Discharged
	Male	Female				Yes	No						
Adultery.....	1		1	1	1	1			1		1		
Animals, cruelty to.....	3		3		3	3		1	2			3	
Bastardy.....	6		6		6	6		3	3	2	2	1	3
Bigamy.....	3		3		3	3		3			2		1
Ill-fame, keeping house of.....		3	3	1	2	2	1		3		2	1	
Ill-fame, visiting house of.....	13		13		13	13		2	11			13	1
Indescent exposure.....	1		1		1	1			1				1
Indescent liberties taking.....	2		2	1	1	2			2	1	1		1
Polygamy.....	1		1		1	1			1				1
Religious meeting, disturbing.....	2		2		2	2			2	2		2	
Total.....	32	3	35	2	33	34	1	9	26	5	8	19	8

TABLE NO. 6—OFFENSES NOT INCLUDED IN THE FOREGOING.

NATURE OF OFFENSES	SEX		Total	Colored	White	READ AND WRITE		Foreigners	Americans	Minors	Held for Trial	Convicted	Discharged
	Male	Female				Yes	No						
Adulterating milk.....	1		1		1	1		1				1	
Bicycle ordinance, violation of.....	51	1	52	2	50	52		10	42	31		52	
Breach of the peace.....	63		63	3	60	62	1	10	53	10		60	3
Building ordinance, violation of.....	4		4		4	4		1	3			4	
Common drunkard.....	20	6	26		26	26		13	13		4	21	1
Common nuisance.....	12		12		12	12		1	11	8		13	
Concealed weapons, carrying.....	5		5		5	4	1		5	1		4	1
Disorderly.....	141	27	168	7	161	162	6	34	134	56		155	13
Disorderly, returned from Lansing.....	2		2		2	2			2	2		2	
Drunkennes.....	648	37	685	15	670	656	29	202	463	23		685	
Drunk and disorderly.....	120	12	142	11	131	136	6	30	112	18		141	1
Factory law, violation of.....	11		11		11	11			11			10	1
Family, refusing to support.....	28		28	1	27	27	1	6	22	1		15	13
Fast driving.....	10		10		10	10		1	9	3		9	1
Fire ordinance, violation of.....	1		1		1	1			1	1		1	
Game and fish law, violation of.....	13		13		13	13		11	2	1	1	4	8

TABLE NO. 6—Continued.

NATURE OF OFFENSES	SEX		Total	Colored	White	READ AND WRITE		Foreigners	Americans	Minors	Held for Trial	Convicted	Discharged
	Male	Female				Yes	No						
Gaming and being present	4	.....	4	2	2	4	.....	1	3	1	1	3	.....
Jumping on moving trains	27	.....	27	1	26	26	2	6	31	33	.....	27	.....
Libel.....	1	.....	1	.....	1	1	.....	1	.....	.....	.....	.....	1
Neglect of children.....	3	1	4	.....	4	2	2	2	2	.....	.....	4	.....
Officers, resisting.....	2	.....	2	.....	2	2	.....	.....	2	.....	1	.....	1
Park ordinance, violation of	2	.....	2	.....	2	2	.....	.....	2	2	.....	2	.....
Railroad law, violation of	9	.....	9	.....	9	9	.....	.....	9	1	.....	9	.....
Scavenger ordinance, violation of	3	.....	3	.....	3	3	.....	3	.....	.....	.....	.....	3
School law, violation of	27	.....	27	1	26	27	.....	27	.....	.....	.....	26	2
Sidewalk ordinance, violation of	2	.....	2	.....	2	2	.....	1	1	1	.....	2	.....
Sign ordinance, violation of	2	.....	2	.....	2	2	.....	.....	2	.....	.....	2	.....
Sunday law, violation of	3	.....	3	.....	3	3	.....	1	2	.....	.....	2	1
Street ordinance, violation of	22	.....	22	.....	22	22	.....	7	15	2	.....	21	1
Surety of peaces.....	2	.....	2	.....	2	2	.....	2	.....	.....	.....	1	1
Truancy	25	3	28	.....	28	27	1	1	27	28	.....	22	6
Vagrancy. ....	.47	2	49	2	47	43	6	14	35	9	.....	48	1
Total	1331	89	1420	45	1375	1365	56	386	1084	342	7	1354	59

TABLE NO. 7—RECAPITULATION.

NATURE OF OFFENSES	SEX		Total	Colored	White	READ AND WRITE		Foreigners	Americans	Minors	Held for Trial	Convicted	Discharged
	Male	Female				Yes	No						
No. 1. Offenses against persons.....	80	5	85	3	82	84	1	32	53	14	6	59	20
No. 2. Offenses against property committed with violence	17	2	19	3	16	19	.....	2	17	6	16	1	2
No. 3. Offenses against property without violence.....	186	20	206	6	200	202	4	28	178	111	45	114	47
No. 4. Offenses against the license law.	124	1	125	.....	125	121	4	53	72	2	101	21	3
No. 5. Offenses against chastity and public morality.....	32	3	35	2	33	34	1	9	26	5	8	19	8
No. 6. Offenses not included in foregoing	1331	89	1420	45	1375	1365	55	286	1034	242	7	1351	50
Total.....	1770	120	1890	59	1831	1826	65	510	1380	380	183	1568	139

TABLE NO. 8.—AGES OF THOSE ARRESTED.

TABLES	UNDER 10		10 AND UNDER		15 AND UNDER		20 AND UNDER		25 AND UNDER		30 AND UNDER		35 AND UNDER		40 AND UNDER		45 AND UNDER		50 AND UNDER		55 AND UNDER		OVER 60		TOTAL
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
No. 1.....	.....	.....	1	.....	10	.....	13	1	13	.....	6	1	18	2	8	1	2	.....	4	.....	5	.....	5	.....	85
No. 2.....	.....	.....	4	.....	1	.....	3	.....	3	1	3	.....	5	1	.....	.....	.....	.....	.....	.....	1	.....	1	.....	19
No. 3.....	3	.....	41	5	50	3	27	7	16	2	10	.....	13	1	11	1	4	1	4	.....	4	.....	4	.....	206
No. 4.....	.....	.....	.....	.....	1	.....	3	.....	12	.....	23	1	30	.....	26	.....	9	.....	16	.....	.....	.....	.....	.....	125
No. 5.....	.....	.....	.....	.....	4	.....	12	1	3	1	6	1	3	.....	2	.....	.....	.....	2	.....	.....	.....	.....	.....	35
No. 6.....	4	2	47	2	148	14	185	13	154	13	138	11	157	10	130	14	94	8	162	2	112	.....	.....	.....	1420
TOTAL.....	7	2	96	7	214	17	240	22	302	17	196	14	226	14	177	16	109	9	188	2	122	.....	.....	.....	1890

TABLE NO. 9—COMPARATIVE STATEMENT OF OFFENCES FROM 1890 TO 1900 INCLUSIVE.

ITEMS	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900
No. 1. Offenses against the person.....	141	166	117	126	124	134	93	75	77	74	85
No. 2. Offenses against property.....	266	280	264	272	265	262	266	309	223	181	225
No. 3. Offenses against the license law.....	42	31	107	141	149	130	119	74	67	56	125
No. 4. Offenses against chastity, morality, etc. ...	69	88	57	46	45	61	95	89	48	24	35
No. 5. Miscellaneous offenses.....	1344	1181	1330	1258	1211	1017	1345	1414	1555	1477	1490
Total.....	1864	1746	1865	1843	1794	1504	1868	1941	1772	1812	1800

TABLE NO. 10—SHOWING NUMBER OF CASES AND AMOUNT OF STOLEN PROPERTY REPORTED AND AMOUNT RECOVERED. ARRANGED MONTHLY.

	HOUSE BURGLARIES		STORE BURGLARIES		LARCENIES FROM FRONT		OF STORES		LARCENIES FROM STORES		LARCENIES FROM OFFICES		LARCENIES FROM SHOP		LARCENIES FROM HOUSES		LARCENIES FROM ROOMS IN BLOCKS AND HOTELS	
	No.	Loss.	No	Loss.	No.	Loss.	No.	Loss.	No.	Loss.	No.	Loss.	No.	Loss.	No.	Loss.	No.	Loss.
May	1	\$ 100 00	1	\$ 14 00	.....	.....	.....	.....	5	\$ 21 81	2	\$ 36 00	.....	.....	7	\$ 33 50	5	\$ 47 00
June.....	1	.....	1	3 00	1	\$ 40	4	24 45	.....	.....	.....	.....	1	\$ 5 00	6	73 00	3	109 50
July .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	10 00	3	15 00	6	50 50	4	41 00
August.....	.....	.....	1	51 00	1	4 00	3	3 03	.....	.....	.....	.....	4	69 96	6	72 70	3	55 00
September.....	.....	.....	1	2 50	1	8 00	2	20 00	.....	.....	.....	.....	1	7 00	7	49 00	4	36 00
October.....	1	2000 00	1	2 00	3	10 25	2	17 50	2	17 50	2	40 00	1	5 00	5	49 50	1	30 00
November.....	.....	.....	.....	.....	.....	.....	.....	.....	6	69 00	1	12 00	.....	.....	6	280 00	7	280 00
December.....	.....	.....	3	19 50	.....	.....	.....	.....	3	7 50	1	3 00	1	10 00	9	92 25	3	35 00
January.....	.....	.....	.....	.....	.....	.....	.....	.....	7	17 00	1	19 00	1	10 00	7	26 50	3	48 00
February.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	5 00	2	23 00	2	6 50	.....	.....
March.....	.....	.....	5	32 00	.....	.....	.....	.....	4	11 20	1	8 00	.....	.....	9	75 40	10	135 00
April.....	1	30 00	1	2 00	1	50	2	19 35	1	19 35	1	15 00	4	45 00	4	25 00	3	19 25
Total	3	2130 00	14	119 00	8	23 15	28	210 86	11	141 00	18	102 95	74	833 56	45	825 75		

TABLE NO. 10—Continued.

	LARCENIES FROM VACANT HOUSES		LARCENIES FROM THE PERSON		UNCLASSIFIED LARCENIES		TOTAL		CASES REPORTED		ACTUAL LOSS		STOLEN PROPERTY RECOVERED		PER CENT RECOVERED	
	No.	Loss.	No.	Loss.	No.	Loss.	No.	Loss.	No.	Loss.	No.	Loss.	No.	Loss.	No.	Loss.
May.....	1	\$ 6 00	2	\$ 16 00	28	\$1395 00	50	\$1551 31	5	\$ 51 00	45	\$1500 31	31	\$1343 81	80	
June.....	1	....	2	....	24	430 50	43	706 85	1	5 00	42	761 85	26	566 65	74	
July.....	1	3 00	1	30 00	14	311 00	30	440 50	6	96 00	24	362 50	8	167 00	46	
August.....	3	2 00	1	96 00	31	453 30	50	809 00	8	73 30	42	733 70	27	422 20	57½	
September.....	1	2 00	....	....	19	542 00	37	666 50	6	120 00	31	537 50	16	323 50	60	
October.....	....	1 00	....	....	28	662 80	45	2838 05	2	37 00	43	2801 05	30	662 75	21½	
November.....	....	....	....	....	30	541 00	50	966 00	3	20 00	47	987 00	28	646 00	67½	
December.....	....	....	2	27 30	7	63 50	39	251 05	2	37 30	27	213 75	10	87 00	40½	
January.....	....	....	3	25 00	4	269 75	26	407 96	....	....	25	417 96	17	328 25	79½	
February.....	....	....	1	10 00	1	26 00	8	77 50	....	....	8	77 50	2	16 00	20½	
March.....	....	....	....	....	4	21 50	33	283 10	....	....	33	283 10	17	164 80	58	
April.....	....	....	....	....	19	504 00	36	660 10	4	105 00	38	565 10	20	392 50	70½	
Total ..	7	14 00	10	200 30	209	6249 85	437	9737 91	37	566 60	400	9171 31	283	6148 06	56	

TABLE NO. 11—DETECTIVE DEPARTMENT.
SHOWING NAMES OF PERSONS ARRESTED, DATE AND CAUSE.

DATE	NAME	CHARGE	DISPOSITION
May	John Casfield	Larceny in dwelling in day time	Paid \$25.00 fine.
May	Wm Thompson	Larceny in dwelling in day time	Paid \$25.00 fine.
May	Guy Austin	Larceny	Sixty days in jail.
May	James Hendrix	Larceny	No complaint made.
May	Frank Fouts	Escaped prisoner	Turned over to Howard City authorities.
May	Anna Radeke	Larceny	Sentence suspended.
May	Teona Radeke	Larceny	Sentence suspended.
May	Bennie Radeke	Larceny	Sentence suspended.
May	Louis Diamond	Larceny	Ninety days in jail.
May	Charles Pratt	Larceny	No complaint made.
May	Carl Seltzer	Larceny	No complaint made.
May	Angus Flato	Larceny	No complaint made.
May	Geo. Gustine	Larceny	Discharged.
May	Anna Radeke	Larceny	Reform school until 21 years of age.
May	Teona Radeke	Larceny	Sentence suspended.
May	Bennie Radeke	Larceny	Sentence suspended.
May	Burr Weaver	Grand larceny	Turned over to Sheriff Colton of Lake Co.

TABLE NO. 11—Continued.

DATE	NAME	CHARGE	DISPOSITION
June, ..	Harry Arnold.....	Larceny.....	Twenty days in jail.
June.....	John Fitzgerald.....	Larceny.....	Discharged.
June.....	Wm. Moore.....	Burglary and larceny.....	Two years six months Jackson.
June.....	Maggie Moore.....	Burglary and larceny.....	Discharged.
June.....	Anna Nowakeski.....	Larceny in store in day time.....	Paid \$50 fine and costs.
June.....	Peter Cole.....	Larceny.....	Discharged.
June.....	Peter Van Oesten.....	Larceny.....	Paid \$2 67 fine and costs.
June.....	John Habner.....	Forgery and jail breaking.....	Turned over to Petosky authorities.
June.....	Frank Warren.....	Embezzlement.....	Sentence suspended.
June.....	Wm. Snider.....	Larceny.....	Turned over to Muskegon authorities.
June.....	Charles Tenaing.....	Grand larceny.....	Turned over to Toledo authorities.
June.....	Geo. Bower.....	Larceny.....	Paid \$3 fine and costs.
June.....	Dr. C. M. Bennett.....	Murder.....	Found not guilty.
June.....	Thomas DeLuff.....	Larceny.....	Paid \$1.85 fine and costs.
June.....	T. T. Clause.....	False pretenses.....	Turned over to Bay City authorities.
June.....	N. A. Brown.....	False pretenses.....	Turned over to Bay City authorities.
June.....	Harry Smith.....	Grand larceny.....	Discharged.
July.....	E. Cook.....	Larceny.....	Ninety days county jail

TABLE NO. 11—Continued.

DATE	NAME	CHARGE	DISPOSITION
July	Tom Wilson	Larceny	Sent to St. Joseph.
July	A. Fredrickson	Larceny	No complaint made.
July	A. Yerdin	Larceny	No complaint made.
July	E. S. Simes	Larceny in shop	Discharged.
July	Dave Couples	Grand larceny	Paid \$35 fine and costs.
July	A. Priceier	Grand larceny	Sentence suspended.
July	Willie Puff	Larceny	Discharged.
July	E. Cook	Larceny	Discharged.
July	Bert Downs	Larceny	Discharged.
July	Chas. Johnson	Larceny	Discharged.
July	O. B. Clark	Larceny in dwelling in day time	Six months in Ionia.
July	Chas. Seabright	Assault	Sent to Allegan.
August	Randal McCarger	Larceny	Two years in Ionia.
August	Geo Tillman	Larceny	Sixty days county jail.
August	Wm. Tillmas	Larceny	Sixty days county jail.
August	A. Preston	Larceny	Sentence suspended.
August	C. Martin	Larceny	Sentence suspended.
August	F. Stone	Larceny	Sentence suspended.

TABLE NO. 11—Continued.

DATE	NAME	CHARGE	DISPOSITION
August.....	Geo. Morton	Larceny.....	Sentence suspended.
August.....	Chas. Stark	Larceny.....	Sentence suspended.
August.....	C. Apple.....	Larceny.....	Sentence suspended.
August.....	Jas. Ellsworth.....	Larceny.....	Sentence suspended.
August.....	E. Apple.....	Larceny.....	Sentence suspended.
August.....	Wm. From	Larceny.....	Sentence suspended.
August.....	Wm. DeHallender.....	Larceny.....	Sentence suspended.
August.....	N. Horwitz	Larceny.....	Sentence suspended.
August.....	F. Swartz	Larceny.....	Sentence suspended.
August.....	John Apple	Larceny.....	Sentence suspended.
August.....	J. B. Green	Escape.....	Returned to Lansing.
August.....	A. Jonkuskil.....	Larceny.....	Sent to reform school.
August.....	J. Hunt	Larceny.....	No complaint made.
August.....	Floesie Maryette.....	Larceny.....	Sent to Muskegon.
August.....	Wm. Wallick.....	Grand larceny.....	Sentence suspended.
August.....	F. Mauk.....	Larceny from shop in day time.....	Sentence Suspended.
August.....	Jas. Randal	Larceny from shop in day time.....	Sentence suspended.
August.....	Belle Renna.....	Larceny from dwelling in day time.....	Sentence suspended.

TABLE NO. 11—Continued.

DATE	NAME	CHARGE	DISPOSITION
August.....	J. H. Sturges.....	Embezzlement.....	Sent to Lansing.
August.....	W. H. Huga.....	Larceny in store.....	Case Noile Pross'd.
August.....	Carrie Hall.....	Larceny.....	Discharged.
August.....	G. Wint.....	Larceny.....	Sentence suspended.
August.....	A. Tecall.....	Larceny.....	Sentence suspended.
August.....	H. Erb.....	Embezzlement.....	Sixty days county jail.
September..	D. C. DeBow.....	Robbery.....	Turned over to Ottawa Co. authorities.
September..	Jos. H. Grattan.....	Manslaughter.....	Discharged.
September..	Lafayette Foskett.....	Manslaughter.....	Discharged.
September..	Wm. Wall.....	Larceny in dwelling in day time.....	Sixty days in jail.
September..	R. S. Stearns.....	Larceny in dwelling in day time.....	Sixty days in jail.
September..	Leo Smith.....	Grand larceny.....	Turned over to Sheriff Woodworth.
September..	C. M. Sutuff.....	Larceny.....	Ninety days in jail.
September..	John Kerwin.....	Larceny.....	Thirty days in jail.
September..	Chas. Sartwell.....	Assault with intent to do great bodily harm	Discharged.
September..	Flora Hildegger.....	Larceny in hotel in day time.....	No complaint made.
September..	Lou Arndt.....	Larceny.....	No complaint made.
September..	Freeman Blanford.....	Larceny.....	No complaint made.

TABLE NO. 11—Continued

DATE	NAME	CHARGE	DISPOSITION
September	Arthur Pierson	Assault and battery	Turned over to Kalamazoo authorities.
September	Arthur Tusch	Forgery	Sentence suspended.
October	Fred Goebel	Breaking car seal	Sentence suspended.
October	C. Kuntz	Breaking car seal	Paid \$25 fine and costs.
October	Wm Perkins	Larceny	Sent to Muskegon.
October	Chas. Sartwell	Carrying concealed weapons	Fifty days county jail.
October	Wm. Walker	Embezzlement	Discharged.
October	E. Jones	Larceny in office in day time	GUILTY, fined \$25.
October	Jas. Leonard	Larceny in office in day time	GUILTY, fined \$25.
October	Geo. Balentrim	Embezzlement	Ninety days county jail.
October	M. Wertz	Forgery	One year six months at Ionia.
October	M. Riley	Larceny	Ninety days county jail.
October	Wm. Long	Larceny	Ninety days county jail.
October	Geo. Priesler	Larceny	One year three months at Ionia.
October	H. Poulson	Larceny	No complaint made.
October	S. Delana	False pretenses	Sent to Allegan.
October	H. M. Goebel	Larceny	Discharged.
October	Thos. Toal	Larceny	No complaint made.

TABLE NO. 11—Continued.

DATE	NAME	CHARGE	DISPOSITION
October .	John Gorman.....	Larceny.....	No complaint made.
October	Chas Palant.....	Grand larceny.....	Sent to Cadillac.
October . . .	O'Lo North.....	Bastardy.....	Sent to Grand Haven.
October	Chas. Pratt.....	Larceny.....	Sentence suspended.
October	H. Van Roy.....	Larceny.....	Sentence suspended.
November...	Fred Phelps.....	Larceny less than \$25.....	Sixty days county jail.
November...	Henry Rauk.....	Burglary and larceny.....	Sentence suspended.
November...	Fred Boos.....	Burglary and larceny.....	Three years at Jackson.
November...	Geo. Tillman.....	Larceny in store in day time.....	Ninety days county jail.
November...	Wm. Kruger.....	Larceny in dwelling in day time.....	Nine months in Ionia.
November...	Frank Leonard.....	Larceny in store in day time.....	Three years in Ionia.
November...	Jas. Portfleet.....	Larceny in store in day time.....	Sentence suspended.
November...	Chas. Callahan.....	Larceny in store in day time.....	Sent to Lansing reform school until 17 yrs.
November...	Fred Plattenga.....	Larceny in store in day time.....	Sentence suspended.
November...	Jos. Cummings.....	Larceny from a hotel.....	Three and one-half years at Jackson.
November...	B. C. Campbell.....	Desertion.....	Turned over to Bay City authorities.
November...	Melissa French.....	Shop-lifting.....	No information filed.
November...	Burt L. Schmit.....	Larceny.....	Sixty days county jail.

TABLE NO. 11—Continued.

DATE	NAME	CHARGE	DISPOSITION
November...	Jas. O'Neill.....	Larceny in store in day time.....	Three years at Ionia Reformatory.
November..	Frank Tibbitts	Larceny less than \$25	Discharged.
November..	Dilla Hine	Larceny less than \$25	\$100 fine and costs or 90 days county jail.
November..	Louis Moartz.....	Larceny less than \$25	\$25 fine and costs or 60 days county jail.
December..	Frank Swartz	Larceny.....	Fined \$100 and 85c costs.
December..	Verne Hallock	Larceny.....	Fined \$100 and 85c costs.
December..	Isaac Ritzma	Receiving stolen goods.....	Thirty days county jail.
December..	Chas. Ellis	Forgery.....	Two and one-half years at Jackson.
December..	Bert Tibbitts	Grand larceny	No information filed.
December..	Chas. Sutliff	Larceny.....	Ninety days county jail.
December..	Frank Ellsworth.....	Larceny.....	Sixty days county jail.
December..	Ed. Hill	Burglary.....	Sent to Big Rapids.
January....	Shim. Gorman.....	Larceny	Nolle Pross'd on payment of \$1.85 costs.
January....	John Anderson	Larceny	Three years in Lansing school for boys.
January....	Tim. Wilson.	Larceny	Three years in Lansing school for boys.
January....	Guy Tarbell	Larceny.....	Forty-five days county jail.
January....	M. M. Manning.....	Burglary.....	Turned over to sheriff from Newbury.
January..	Wm. Hill	Larceny.....	Ninety days county jail.

TABLE NO. 11—Continued.

DATE	NAME	CHARGE	DISPOSITION
January ..	Jas. Eldridge ..	Larceny in dwelling ..	Sentence suspended.
January ..	Louisa Johnson ..	Larceny ..	No complaint made.
January ..	Minnie Johnson ..	Larceny ..	No complaint made.
January ..	Chas. Ellis ..	Larceny in dwelling in day time ..	No complaint made.
January ..	Geo. Jesti ..	Forgery ..	Sentence suspended.
January ..	Wm. Burkhaart ..	Larceny ..	Ninety days county jail.
January ..	Harry Sage ..	Larceny ..	Sixty days county jail.
January ..	Hans Roedder ..	Larceny ..	Sixty days county jail.
January ..	Wm. Wiggins ..	Burglary and larceny ..	Turned over to Ionia county authorities.
February ..	Louis Boughner ..	Burglary and larceny ..	Sentence suspended.
February ..	Jas. Langland ..	Grand larceny ..	Sixty days county jail.
February ..	Burt Galka ..	Grand larceny ..	Sixty days county jail.
February ..	Ed. Fulcher ..	Grand larceny ..	Sentence suspended.
February ..	Orle Meadina ..	Larceny ..	Paid \$4.85 fine and costs.
February ..	John Quist ..	Larceny ..	Paid \$4.85 fine and costs.
February ..	D. L. Stevens ..	Resisting an officer ..	Turned over to Muskegon authorities.
February ..	Harvey Wilcox ..	Larceny ..	Complainant refused to prosecute.
February ..	Ed. Wood ..	Larceny ..	Fifteen days county jail.

TABLE NO. 11—Continued.

DATE	NAME	CHARGE	DISPOSITION
February ..	Claud Van Blake ..	Larceny	Fifteen days county jail.
February ..	Willie Van Blake ..	Larceny	Sentence suspended.
February ..	A. J. Collins	Forgery	Turned over to Eaton county authorities.
March	Frank Fitch	Larceny	Sixty days county jail.
March	Frank Barnes	Larceny	Ninety days county jail.
March	Fred Fagan	Grand larceny ..	Two years and six months at Ionia.
March	John Dufy	Grand larceny ..	Two years and six months at Ionia.
March	Fred Boyer	Seduction ..	Turned over to Saginaw authorities.
March	Clarence Cummings. .	Larceny in dwelling ..	Case pending.
March	F. W. Adams	Forgery	Turned over to Detroit authorities.
March	Beatrice Demio	Larceny	Complainant refused to prosecute.
March	Jas. Corrigan	Larceny	Thirty days county jail.
March	E. Loomis	Larceny from person	Turned over to Sheriff McCulloch of Ithaca, Mich.
March	Clarence Wood	Larceny	Forty-five days county jail.
March	J. B. Green	Larceny	No complaint made.
March	J. Fitzgerald	Larceny	Sixty days county jail.
March	Ann Eagle	Larceny	Paid \$5 fine and costs.
March	Frank Ellsworth	Grand larceny	Five years in Jackson.

TABLE NO. 11—Continued.

DATE	NAME	CHARGE	DISPOSITION
March.....	Albert Tickall.....	Burglary and larceny.....	Sentenced to Lansing reform school until 17.
March. . . .	Angus Flato	Burglary and larceny.....	Sentence suspended.
March.	Nelson Gerow	Rape	Case pending.
March.	Fred Ferguson	Burglary and larceny.....	Case pending.
March.....	John Wright.....	Burglary and larceny	10 years at Jackson.
April.....	Mary Ross.....	Grand larceny.....	Turned over to Kalamazoo authorities.
April.....	Jas. O'Neal.....	Burglary and larceny	Three years in Ionia reformatory.
April.....	Henry Skipper	Larceny in office in day time	Sentence suspended.
April..	Arthur Cline.....	Grand larceny	Sent to Lansing reform school until 17.
April.....	Chas. Davis.....	Grand larceny	Discharged.
April.	Collins Loomis	Forgery.....	One year in Jackson.
April.....	Mary Woruskinski	Larceny.....	Paid \$11.85 fine and cost.
April.....	Alice Stevens.....	Larceny.....	Paid \$11.85 fine and cost.
April.....	Leviatus Lansing	Adultery	Case pending.
April..	Alfred Borden	Larceny	Forty-five days county jail.
April.....	Geo. Baker	Larceny	Released on payment of \$2.00 costs.
April..	Guy Austin	Burglary and larceny	Case pending.

TABLE NO. 12—DISPOSITION OF CASES.

	Acquitted	Appealed	Bond filed to keep Peace	Commitment issued	Committed to County Jail	Complaint withdrawn	Discharged	Dismissed	Held for Trial	Nolle Pross'd	Nolle Pross'd—Paid Costs	Paid Fine and Costs	Sent to Adrian In-dustrial School	Sent to Lansing In-dustrial School	Sentenced to Pay Costs	Sentence Suspended	AMOUNT FINES AND COSTS COLLECTED		
																	Fines Paid	Costs	Total Fines and Costs Paid
May	1	1	1	...	27	...	2	4	6	9	2	80	2	...	49	23	\$ 247 55	\$ 283 10	\$ 490 65
June	2	1	1	...	28	...	3	1	5	4	1	56	...	1	56	17	101 10	152 50	253 60
July	2	...	...	...	36	...	3	1	38	16	...	26	...	3	58	15	128 65	146 90	276 55
August.....	1	1	...	1	62	...	3	8	62	4	3	35	1	2	16	13	246 40	94 05	340 45
September .....	...	...	...	...	54	...	2	5	8	6	...	24	2	3	34	8	153 85	110 15	263 50
October	4	2	...	...	39	...	3	4	8	15	1	39	1	6	35	25	332 63	136 70	469 33
November .....	...	1	1	...	35	...	1	...	15	6	...	22	1	3	37	7	96 60	115 56	211 15
December	3	...	...	...	49	...	2	3	4	8	1	32	1	2	48	22	160 60	151 50	302 10
January .....	...	...	...	...	30	...	1	...	8	3	1	33	1	2	25	15	116 25	113 90	229 15
February .....	...	...	...	...	35	...	...	...	6	3	4	37	...	1	13	8	233 75	111 25	335 00
March	1	...	...	...	37	...	1	4	8	1	...	28	3	1	39	12	180 00	102 96	283 05
April .....	...	...	...	2	61	1	...	...	9	9	...	33	...	2	30	9	203 25	114 05	317 30
Total	13	6	3	3	487	1	90	30	177	83	13	413	11	26	490	174	\$3173 22	\$1583 91	\$3769 13

NATIVITY OF PERSONS ARRESTED.

Austria	4
Armenia.....	1
Belgium.....	1
Canada.....	68
Denmark	11
England.....	27
Finland	4
France	2
Germany	86
Holland	167
Ireland	91
Italy	4
Norway	6
Poland	15
Prussia.....	1
Russia	10
Scotland	1
Switzerland	1
Sweden	16
Turkey.....	1
United States.....	1373
Total.....	1890

OCCUPATIONS OF PERSONS ARRESTED.

Actor.....	3
Agent	31
Awning maker.....	1
Baker	5
Barber	31
Bartender	2
Basket maker	11
Bell boy.....	4
Bill poster.....	1
Blacksmith	27
Boiler maker.....	6
Bookkeeper	5
Book maker.....	2
Brakeman	6
Brick maker	1
Broom maker	5
Builder.....	1
Butcher	11
Buffer.....	1
Cabinet maker	29
Candy maker	1
Carpenter	36
Carver	12
Car inspector	1
Call boy.....	1
Chair maker.....	2

Chimney sweep	1
Cigar maker	11
Clerk	41
Clock maker	1
Collector	2
Contractor	16
Cook	15
Cooper	8
Doctor	4
Domestic	22
Draughtsman	2
Druggist	1
Editor	1
Engineer	6
Elevator boy	2
Electrician	2
Expressman	1
Farmer	60
Filer	1
Finisher	69
Fireman	8
Glazer	1
Groom	22
Harness maker	9
Hatter	1
Horseman	2
Hotel keeper	2
House keeper	1
Housewife	26
Inspector	2
Janitor	3
Jeweler	1
Junk dealer	5
Laborer	598

Lather	2
Laundryman	1
Lineman	18
Machinist	28
Machine hand	37
Mason	19
Manager	14
Merchant	15
Messenger	4
Miller	1
Molder	20
Night watch	1
None	6
Nurse	1
Office boy	1
Operator	2
Packer	6
Painter	44
Policeman	1
Peddler	32
Photographer	1
Piano tuner	3
Plumber	4
Polisher	4
Porter	17
Printer	23
Prostitute	53
Reporter	2
Restaurant keeper	1
Roofer	2
Salesman	8
Saloon keeper	96
Sailor	5
Sander	2

Sawyer.....	5
School teacher	3
School boy.....	111
School girl	9
Scavenger	3
Shaper hand.....	1
Shoe maker	6
Soldier.....	1
Slave jointer.....	1
Stone cutter	1
Student	4
Switchman	2
Tailor.....	13
Teamster.....	46
Tinsmith	5
Turner.....	1
Upholsterer	11
Undertaker.. ..	2
Waiter	7
Wagon maker.....	1
<hr/>	
Total.....	1890

SUMMARY OF WORK OF THE TRUANT OFFICER.

CHARACTER OF NOTICES SERVED	May	June	September	October	November	December	January	February	March	April	Total
Number of persons warned for truancy	59	58	22	30	41	82	56	32	64	54	530
Number of persons warned for incorrigibility	29	11	7	24	13	14	13	3	12	14	140
Number of persons warned under compulsory law .....	.....	4	.....	35	30	13	.....	10	17	2	111
Number of specials investigated.....	391	349	271	438	426	413	883	396	374	380	3831
Number of visits to stores and factories.....	9	6	.....	7	2	3	7	7	9	7	57
Number of persons taken from street to school.....	20	16	12	14	11	17	15	14	13	16	147
Number of persons arrested on warrant.....	2	1	.....	2	13	10	6	3	3	3	42
Total.....	510	445	312	150	535	552	432	455	491	486	4646
Number of visits to school.	191	96	40	88	98	107	104	106	100	102	982

POUNDMASTER'S REPORT. SHOWING NUMBER OF ANIMALS IMPOUNDED, FEES COLLECTED, ETC. (ARRANGED MONTHLY.)

	May	June	July	August	September	October	November	December	January	February	March	April	Total
Dogs impounded.....	90	106	65	66	41	40	28	32	26	7	12	30	538
Dogs redeemed.....	9	2	3	4	2	5	1						26
Amount of pound fees collected.....	\$11 25	\$2 00	\$5 00	\$6 00	\$4 00	\$6 00	\$3 00						\$36 25
Number of dogs killed in pound.....	46	80	70	70	52	47	39	26	26	7	12	24	498
Dead dogs and cats removed from street and other places.....	77	50	47	43	33	30	27	23	45	47	57	57	551
Fees collected for removing same.....	\$2 50	\$1 50	\$2 00	\$50	\$40	\$1 50	\$50			\$1 00	\$3 00	\$50	\$12 40
Horses impounded.....	2	7	3	3		3		3				1	22
Amount of pound fees collected on same.....	\$1 00	\$7 25	\$3 50	\$3 00		\$2 00		\$4 00				\$1 00	\$21 75
Horses impounded, killed by owners' request.....						1							1
Dead horses removed.....	14	8	17	19	23	24	16	11	16	13	17	15	192
Fees collected on same.....	\$7 00	\$3 50	\$18 00	\$6 00	\$14 00	\$14 00	\$14 00	\$4 00	\$10 00	\$5 00	\$2 00	\$6 00	103 00
Horses removed, killed or condemned by Humane Agent.....	1	1			1	2	1		1				7
Cattle impounded.....		1				1							3

POUNDMASTER'S REPORT—Continued.

	May	June	July	August	September	October	November	December	January	February	March	April	Total
Amount of pound fees collected on same.....	\$ 1 00				\$ 1 00	\$ 1 00							\$ 3 00
Dead cattle removed.....	2	1	2	3	3	1		1			1		14
Fees collected for removing same.....	\$ 2 00			\$ 1 00	\$ 2 00			\$ 1 00					\$ 6 00
Fees collected from Glue Co. for dead horses delivered.....	\$10 00	\$11 25	\$33 75	\$37 50	\$32 50	\$33 75	\$21 25	\$17 50	\$21 25	\$15 00	\$33 50	\$18 75	255 00
Total amount of fees collected.....	\$38 75	\$53 50	\$52 25	\$41 00	\$53 90	\$53 25	\$37 75	\$33 50	\$31 25	\$21 00	\$33 50	\$28 25	427 90

NUMBER OF MEALS FURNISHED**TO PRISONERS DURING THE YEAR.**

1899—May	90
June.....	146
July	108
August.	111
September.....	99
October	91
November	113
December.....	96
1900—January	38
February	72
March.....	92
April	118
Total	1174

MATRON'S REPORT.

GRAND RAPIDS, MICH., May 3, 1900.

Harvey O. Carr, Supt. of Police:

DEAR SIR—I herewith submit my annual report of persons cared for in my department for the year ending April 30th, 1900:

	May	June	July	August	September	October	November	December	January	February	March	April	Total
Drunk.....	3	2	3	4	4	4	1	8	3	1	1	1	35
Drunk and disorderly	3	1	2	1	2	1	1	1	....	5	1	5	23
Disorderly	2	1	4	3	2	....	1	2	....	....	3	2	20
For investigation.....	1	....	....	....	....	....	1	....	1	....	....	....	3
Keeping house of ill fame .....	....	....	....	1	....	....	1	1	....	....	....	....	3
Larceny from store.....	....	1	....	....	....	....	1	....	....	....	....	....	2
Larceny over \$25	1	1	....	....	....	....	....	1	....	....	....	....	3
Larceny less than \$25 .....	....	....	....	3	....	....	....	....	1	....	....	2	6
Suspicion of larceny ....	....	....	....	....	1	1	....	....	....	....	....	....	2
False pretenses.....	....	....	....	....	1	....	1	....	....	....	....	....	2
Truancy.....	2	....	....	....	2	1	4	....	....	....	1	....	10
Lodgers.....	1	6	3	5	1	3	2	2	2	7	7	6	45
Lost children.....	22	....	10	4	10	2	....	2	1	....	1	6	58
Runaways	2	....	1	....	....	1	....	....	2	1	....	....	7
Seeking work. ....	....	....	....	....	....	2	....	1	....	....	....	....	3
Fast riding.....	....	....	1	....	....	....	....	....	....	....	....	....	1
Safe keeping.....	....	3	....	....	....	1	....	1	1	....	....	1	7
Vagrancy .....	....	....	....	....	....	....	....	....	2	....	....	....	2
Criminal neglect.....	....	....	....	....	....	....	....	....	1	....	....	....	1
Setting fire to barn	1	....	....	....	....	....	....	....	....	....	....	....	1
Turned over to officers of other places .....	....	....	....	....	1	....	....	....	....	....	1	1	3
Total.	38	15	24	21	24	16	13	19	14	14	15	24	237

DISPOSITION OF CASES.

Committed to jail	44
Discharged	1
Held for trial	8
Paid fine and costs	21
Paid costs	9
Nolle pross'd	2
Sentence suspended	10
Released	6
Referred to County Superintendent of Poor...	18
Sentenced to Industrial Home.....	10
Sent home to friends	103
Referred to Charity Organization Society....	1
Safe keeping	1
Turned over to officers of other places	3
Total.....	237

OCCUPATION.

Dressmaker	1
Housewife	50
Housekeeper	6
Laundress	1
Waitress	2
Seamstress	1
Domestic	42
No occupation	75
School girl	17
School boy.....	4
Prostitutes	31
Shop girls.....	3
Clerks	3
Lecturer	1
Total.....	237

NATIVITY.

Canada	11
Germany	6
Holland	6
Ireland	12
Sweden	6
Russia	1
Wales	1
Mexico	1
Finland	1
United States	192
Total	<hr/> 237

OTHER ITEMS.

Married	68
Single	169
White	217
Black	20
Read and write	158
Cannot read and write	79
Total	<hr/> 237

Respectfully submitted,
CHARLOTTE COLLIER,
Police Matron.

ANNUAL REPORT
OF THE
GRAND RAPIDS POLICE RELIEF
AND
BENEFIT ASSOCIATION.

GRAND RAPIDS, MICH., April 30, 1900.

To the Honorable Board of Police and Fire Commissioners of the City of Grand Rapids:

GENTLEMEN—I herewith submit to your honorable body the Annual Report of affairs pertaining to the Association.

The Association numbers ninety-eight (98) members.

OFFICERS.

President—Patrick Doherty.
Vice-President—N. J. Van Dine.
Secretary—Wm. J. Hurley.
Treasurer—Geo. W. Traxler.

BOARD OF TRUSTEES.

Timothy Madigan, S. A. Welch, Jas. Whelan,
S. F. Stecklee, Geo. W. Spring.

The following is a statement of the financial condition of the Association:

RECEIPTS.

Amount in treasury April 30, 1899.....	\$ 430 00
To initiation fees, dues and assessments..	582 60
To interest on deposit	10 00
<hr/>	
Total.....	\$1,022 60

DISBURSEMENTS.

To cash paid to sick members.....	\$ 232 50
To Secretary's salary	12 00
To Treasurer's salary.....	12 00
<hr/>	
Total.....	\$ 256 50
Total amount in treasury to date.....	\$ 766 10

Respectfully submitted.

WM. J. HURLEY,

Secretary.

FISCAL EXHIBIT.

Statement of receipts and expenditures of the Police Department covering the period from August 1st, 1898 to July 1st, 1899:

	DR.	CR.
To estimates prepared by the Board to the Common Council.....	\$ 96,299 60	
Less one-twelfth of salary account to conform to change in fiscal year.....	7,300 96	
	\$ 88,998 64	
Less deducted by Common Council	10,000 00	
	\$ 78,998 64	
To unexpended balance from previous year.....	3,873 51	
Deposited with City Treasurer for sundry items.....	486 65	
By salary account.....		73,768 13
Typewriter and stenographer.....		275 00
Horses.....		250 00
Fuel		355 42
Lighting and incidentals.....		306 56
Washing		119 98
Telephone rents.....		77 75
Repairs patrol wagon and harness.		36 80
Secret service, contingent and incidental fund.		149 78
Supplies and incidentals for maintenance of Headquarters.....		3,272 83
Expense Secretary's office.....		50 65
Hay and grain.....		370 15
Horse shoeing and veterinary.....		351 73
One-half Secretary's salary.....		550 00
Meals for prisoners at Headquarters		140 00
Pound Department.....		598 09
Small patrol wagon.....		450 00
Transfer of funds to Fire Department.....		2,300 00
Unexpended balance.....		71 98
	\$ 83,239 80	\$ 83,239 80

POLICE TELEPHONE AND SIGNAL SYSTEM.

GRAND RAPIDS, MICH., May 1, 1900.

To the Honorable Board of Police and Fire Commissioners:

GENTLEMEN—I have the honor of presenting to you the annual report of the Police Telephone and Signal System for the year ending April 30th, 1900.

The Police Telephone and Signal System is made up of the following apparatus and material:

In the operating room at headquarters there are six tape registers and a combination switch-board for the telephone service.

There were 412,651 regular calls received during the year. Supt. Carr's tabulated report shows the amount of work done by this branch of the service.

We drew in a piece of 40-wire cable from the street to the operating room, and as we use the same cables for Police and Fire work, the same alterations to cables and pole lines are made at one time for the Police Department that appear in the Fire Alarm report.

The storage battery installed two years ago is giving the best of service at a very low cost. (Attached is an inventory of the property of this branch of the service.)

I wish to acknowledge my obligations to the Superintendent of Police, and all the officers and men in this department for many acts of kindness during the year.

Respectfully submitted,

M. G. CANFIELD,

Supt. Fire Alarm.

INVENTORY.

1	Six-circuit switch-board and storage battery	\$ 750 00
41	Telephones	188 60
80	Cells dry battery, 25c	20 00
30	Cells salamonic battery, 40c	12 00
5	Ink registers, \$100	500 00
1	Ink register	40 00
5	Tape reels, \$5	25 00
1	Four-point annunciator	6 00
1	Telephone switch board	60 00
	Electrical equipment — forty-four street booths, \$25	1,100 00
1	Eight-inch fire alarm gong	50 00
	C. O. line and equipment	21 00
44	Street booths, \$50	2,200 00
	Underground wires in cables	1,365 00
58	Miles No. 9 E. B. B. galvanized iron wire, \$20 per mile	1,160 00
6257	Feet iron pipe conduits	813 41
5254	Feet No. 14 paranite wire at booths, 4c	209 16
940	Feet $\frac{3}{4}$ -inch iron pipe at booths, 3c.. ..	28 20
2600	Feet underground single wire, 4c... ..	104 00
Total		\$8,652 37

MISCELLANEOUS MATERIAL ON HAND.

2 Street booths complete	\$100 00
20 Cells dry battery, 25c.....	5 00
80 Lbs. register paper, 15c.....	12 00
1 Lock for street booth.....	3 00
1 Extra police register	6 25
Wire, insulators, cross-arms.....	25 00
<hr/>	
Total	\$151 25

RECAPITULATION.

Inventory Police Department.....	\$78,725 00
Inventory Telephone and Signal Service.	8,803 62
	<hr/>
Total.....	\$87,528 62

FIRE DEPARTMENT.

ANNUAL REPORT OF THE FIRE MARSHAL.

GRAND RAPIDS, MICH., May 1, 1900.

To the Honorable Board of Police and Fire Commissioners:

GENTLEMEN—I herewith present you my reports for the year ending April 30th, 1900. In this report you will find the number of officers, men, houses, apparatus, hose, working tools and conditions of everything in our charge; losses by fire, insurance on same, insurance paid and general information regarding the department, and what I consider necessary to increase its efficiency.

The manual force consists of 124 men, distributed as follows:

- One fire marshal.
- One assistant fire marshal.
- One battalion chief.
- One superintendent of fire alarm.
- One foreman of construction.
- Two inspectors.
- Thirteen captains.
- Fifteen lieutenants.
- Seven engineers.
- Seven assistant engineers.
- Thirty-two full time pipemen.
- Seventeen full time laddermen.
- Twenty-six drivers.

RETIRED AND PENSION ROLL.

Solon W. Baxter, at \$20.83 per month.

FIRES AND ALARMS.

There were during the year fires and alarms.....		387
Of which, box alarms.....	171	
still alarms.....	154	
False and duplicate	44	
Long's lumber yard.....	18	
		<hr/>
		387
False and duplicate alarms.....		44
Of which were, box alarms.....	34	
Still alarms... ..	10	
		<hr/>
		44

ALARMS ANSWERED EACH MONTH.

May	35
June	21
July	23
August.....	44
September	25
October	32
November	31
December.....	36
January	35
February	36
March	26
April	25
Long's lumber yard.....	18
	<hr/>
	387

CAUSES OF ALARMS.

Kerosene oil igniting woodwork.....	1
Gasoline stove	18
Careless handling of gasoline.....	4
Spontaneous combustion.....	6
Lamp explosion.....	4
Lighted cigar stub.....	4
Chimneys burning out.....	81
Oil stoves.....	8
Bonfires	6
Electric wires, imperfect wiring.....	12
Electric wires, lighting.....	2
Brush heap.....	1
Sparks from locomotives.....	6
Blow pipe	1
Explosion of sulphur and potash.....	2
Matches among bed clothes.....	1
Defective chimneys.....	10
Matches.....	7
Sparks from furnace.....	2
Disconnected stove pipes.....	2
Supposed incendiary	7
Hot iron igniting woodwork	1
Smoke from stove.....	1
Burning grass	1
Sparks from engine	1
Steam pipes	2
Burning rubbish	1
Lighted candle.....	1
Meat falling into fire.....	1
Workman while repairing.....	1
Sparks from chimneys.....	4
Children playing.....	2

Brands from fire.....	1
Rags in chimney hole.....	1
Boiling tar	1
Sparks from stove.....	2
Boiling turpentine.....	1
Slacking lime.....	1
Overheated stove pipe.....	2
Plumbers and gas pipe	1
Sparks from picking machine	1
Gas tank.....	1
Overheated stove.....	2
Overheated chimney.....	2
Hunting for leak in gas pipe.....	1
Hot ashes	5
Overheated flue.....	2
Exhaust pipe.....	1
Friction and dust	1
Defective oven	1
Defective flue.....	2
Outside of city.....	2
Defective furnace.....	1
Stove pipe too near woodwork.....	1
Flue bursting.....	1
Explosion of kerosene oil	1
Furnace.....	3
Thawing out pipe.....	1
Stove falling down.....	1
Wood on top of boiler.....	1
Breaking lamp.....	1
Children and matches	1
Defective grate	1
Overheated grate	1
Mice and matches.....	1
Dog upsetting clothes on stove.....	1

Fire place	1
Unknown	76
False alarms and duplicate alarms	44
Rubbish and saw dust in Long's old lumber yard	18
	<hr/>
Total	387

CLASS OF BUILDINGS WHERE FIRES OCCURRED.

Frame	220
Brick	69
Rubbish	10
Grass	10
Wood piles, pole, etc	5
Wood and iron	4
Saw dust pile	1
Tree	1
Straw pile	1
Stone	2
False and duplicate alarms	44
Rubbish and sawdust in Long's old lumber yard	18
	<hr/>
Total	387

VALUE, INSURANCE AND DAMAGE TO PROPERTY.

Value of buildings	\$1,064,845	15
Value of contents	1,322,911	98
	<hr/>	
	\$2,387,757	13
	<hr/>	
Insurance on buildings	\$ 622,400	00
Insurance on contents	839,290	00
	<hr/>	
	\$1,461,690	00

Damage on buildings.....S	57,183 92
Damage on contents.....	59,396 78
	<hr/>
	\$ 116,480 70

AMOUNT OF FIRE LOSS EACH MONTH.

	Buildings	Contents	Total
May	\$ 22,610 80	\$ 25 962 00	\$ 48,572 80
June	10,933 00	15,123 00	26,075 00
July	2,824 00	2,150 50	4,974 50
August	942 00	1,238 50	2,180 50
September	4 297 00	316 00	4,613 00
October	796 14	1,175 05	1,971 19
November	956 00	431 37	1,387 37
December	888 00	180 00	1,068 00
January	9,508 98	9,564 36	19,073 34
February	2,038 00	1,951 00	3,789 00
March	977 00	883 00	1,860 00
April	393 00	322 00	715 00
Total.....	\$ 57,183 92	\$ 59,296 78	\$ 116,480 70

DISTRIBUTION OF HYDRANTS AND WATER SUPPLY.

There are at present about thirteen hundred fire hydrants. There are numerous places where fire hydrants are two blocks apart, notably on Cherry street from Madison avenue to College avenue. Morris avenue, the intervening street, is built up with fine residences. There are other locations equally as needy, all of which I urge upon you the necessity of having provided with the necessary hydrants. Thus far no shortake of water has occurred. However, it is possible to occur at any time in the southern and eastern portions of the

city, owing to the long distance from the pumping station. This can only be overcome by standpipes in the districts mentioned.

REPAIR SHOP.

Our repair shop continues to be a great convenience and saving, as well as a benefit to such of the men who are detailed to work therein.

FIRE WARDEN'S DUTY AND BUILDING INSPECTION

Continues to be vigorously pushed, and is a very important part of our work. We have generally met with the co-operation of those most interested in the removal of dangerous material.

HORSES.

The horses in the department number fifty-six.

Three to department officers.

Twenty to hose wagons.

Eighteen to steamers.

Seven to trucks.

Four to chemical engines.

One to fuel wagon.

One to fire alarm telegraph wagon.

Two in reserve.

HOSE.

When Purchased	Size	Amount	On hand	KIND
	Inches	Feet	Feet	
1879	2½	800	200	Eureka.
1883	2½	3000	150	No. 3 cable.
1885	2½	500	200	No. 3 cable.
1886	2½	1500	350	No. 3 cable.
1887	2½	1000	300	No. 3 cable.
1887	2½	1500	100	Boston woven.
1888	2½	500	200	No. 3 cable.
1889	2½	3400	3000	No. 4 cable, red dot.
1890	2½	3000	1850	No. 4 cable, red dot.
1891	2½	6000	5850	No. 4 cable, red dot.
1892	2½	50	50	Jacket.
1893	2½	1500	1450	Paragon.
1893	2½	500	500	No. 3 cable.
1893	3½	60	55	No. 3 cable.
1894	2½	50	50	Jacket.
1894	2½	200	150	Baker fabric.
1894	2½	1000	1000	Paragon.
1895	2½	2000	1950	Paragon.
1896	3	1800	1650	Eureka.
1897	2½	1000	1000	Baker fabric.
1898	2½	1000	900	Baker fabric.
1898	2½	2000	1950	Paragon.
1899	2½	1000	1000	Paragon.
1899	2½	1000	1000	Baker fabric.
.....	2½	.....	23200	
.....	3	.....	1650	
.....	3½	.....	55	
.....	.....	.....	24905	

HOSE AT STATIONS.

	Size.	Amount.
No. 1 Station	2½ in.	2100
No. 2 Station	2½ in.	2000
No. 3 Station	2½ in.	2050
No. 4 Station	2½ in.	1550
No. 4 Station	3 in.	1650
No. 4 Station	3½ in. carried on No. 4 truck	55
No. 5 Station	2½ in.	4350
No. 6 Station	2½ in.	3200
No. 7 Station	2½ in.	2050
No. 8 Station	2½ in.	1900
No. 9 Station	2½ in.	1900
No. 10 Station	2½ in.	2100
	2½ in.	23200
	3 in.	1650
	3½ in.	55
Total		24905

APPARATUS.

One extra special first size Metropolitan steam fire engine.

One first size Metropolitan steam fire engine.

Three second size La France steam fire engines.

One extra first size La France steam fire engine.

One second size Ahrens steam fire engine.

One extra first size Waterous steam fire engine.

Ten 4-wheel hose wagons, three with ball-bearing axels and one with roller-bearing axels, all manufactured in the city.

One Arrow aerial ladder truck, 93 feet when extended.

Two city ladder trucks with ball-bearing axles, manufactured in the city, fully equipped.

One 50-gallon double-tank chemical engine with ball bearings, made by the Muskegon Chemical Engine Company.

One 35-gallon double-tank chemical engine, with ball-bearings, made by the Muskegon Chemical Engine company.

One 4-wheel buggy for Fire Marshal.

One 4-wheel buggy for Assistant Fire Marshal.

One 4-wheel buggy for Chief of First Battalion.

One 4-wheel wagon for fuel and other supplies.

One 4-wheel wagon for fire alarm department.

Thirteen 4-wheel exercise wagons.

RESERVE APPARATUS.

One extra first size Button steam fire engine, in good condition.

One second size La France steam fire engine, in good condition.

One 4-wheel hose wagon, in good condition.

One 4-wheel buggy, in good condition.

Two 4-wheel hose wagons kept at station for storage of hose and responding to calls out of city.

One city truck equipped with ladders, in good condition.

Six sets of hose sleighs, fully equipped for winter use.

Two sets of sleighs for chemical engine, fully equipped with single 80-gallon tanks, in good condition.

One 1-horse 4-wheel wagon, in fair condition.

One 2-horse 4-wheel wagon, in fair condition.

Two sleighs and frames for Nos. 1 and 3 trucks for winter use.

One 2-horse larry, in good condition.

One 2-wheel gig for drawing poles.

HARNESS.

Five sets of 3-horse swinging harness.

Seventeen sets of double-swinging harness, for truck, steam, hose and chemical engines.

Three sets of single swinging harness for department officers.

One set of single swinging harness for fuel wagon.

One set of single harness for telegraph department.

One set of double harness for extra wagon.

One extra single harness for department officers.

Three saddles.

DISCIPLINE.

The discipline of the department I believe to be up to the standard. But few cases of discipline have occurred during the year and the men have shown a commendable disposition to respect the rules.

GENERAL REMARKS.

The engine houses are all in good condition and are thus kept by the members of the department, purchasing only the needed material.

No. 1 should be rebuilt near its present location and made sufficiently commodious to accommodate an engine and a water tower.

The erection and maintenance of a station in the southeastern portion of the city will soon be a necessity.

Engine and truck companies should have an additional man in order that the department should not be weakened when men are taking their days off.

No. 6 station is the most convenient place for reserve apparatus, and at small expense only for material it could be so arranged.

The needs of an infirmary upon the vacant lot at No. 2 are frequently felt. These extensions could all be brought about, largely by the purchase of the material only.

There should be a department surgeon employed who should examine all applicants, pass upon the condition of the men when ill and report when they are able to return to duty.

I have great reason to thank your Honorable Body for the support that I have received during the year. My thanks are due to the members of the department for their faithful discharge of duty. The police department have rendered valuable service, and I have reason to be grateful to them for their cheerful co-operation. The clerical force of your office has ever been attentive and courteous, and to them my thanks are due.

Most respectfully,

HENRY LEMOIN,

Fire Marshal.

FIREMEN'S FUND ASSOCIATION.

GRAND RAPIDS, MICH., May 1, 1900.

Henry Lemoin, Fire Marshal:

DEAR SIR—I herewith submit you a statement of the finances of the Grand Rapids Firemen's Fund Association from May 1st, 1899, to April 30th, 1900.

(Signed) H. C. BETTINGHOUSE,
Secretary-Treasurer.

CASH RECEIPTS.

1899.

May	1,	Invested in mort-		
		gages	\$4,100	00
May	1,	Cash on hand	930	41 \$5,030 41
May	20,	Donation of John S.		
		Lawrence	20	00
May	27,	Dues and initiation.	4	00 24 00
June	7,	Dues and initiation.	8	00 8 00
July	6,	Dues received	1	00
July	12,	Interest	9	45
July	12,	Dues and initiation.	131	00
July	26,	Dues and initiation.	4	00
July	31,	Donation of P. Doty	5	00 150 45
Aug.	5,	Interest	17	50
Aug.	15,	Interest	17	50
Aug.	29,	Interest	1	40 36 40
Sept.	28,	Interest	4	67 4 67
Oct.	1,	Dues and initiation.	4	00
Oct.	3,	Interest	35	00

Oct.	11,	Dues and initiation.	\$118 00	
Oct.	13,	Interest.....	3 60	
Oct.	19,	Dues and initiation.	6 00	
Oct.	28,	Interest	49 00	
Oct.	30,	Board of Police and Fire Commission- ers, account of his- tory of the G. R. Fire Department.	1,022 10	\$1,237 70
Nov.	7,	Donation of D. H. Waters & Son...	25 00	
Nov.	7,	Dues and initiation.	4 00	
Nov.	8,	Dues and initiation.	8 00	37 00
Dec.	13,	Interest	1 45	1 45

1900.

Jan.	10,	Dues.....	113 00	
Jan.	27,	Donation of J. Boyd Pantlind	100 00	213 00
Feb.	8,	Dues and initiation.	24 00	
Feb.	10,	Donation of D. H. Waters & Son....	50 00	74 00
Mar.	6,	Dues and initiation.	4 00	
Mar.	21,	Interest... ..	19 25	
Mar.	21,	Interest.	18 00	41 25
April	4,	Interest.....	30 00	
April	10,	Dues.....	113 00	
April	11,	Interest.....	6 00	
April	19,	Dues.....	1 00	
April	30,	Interest.....	98 00	248 00

\$7,106 33

DISBURSEMENTS.

1899.

May	24,	T. Fitzpatrick.....	\$	10	71	
May	24,	C. Wheeler		15	71	\$26 42
June	21,	W. Corbin		2	66	
June	21,	C. Wheeler		12	13	
June	21,	J. Krupp.....		7	31	22 10
July	6,	S. J. Tanner.....		45	00	
July	6,	S. J. Tanner.....		25	00	
July	15,	Sexton Fulton St. Cemetery, taking up two bodies....		6	00	
July	19,	S. J. Tanner.....		20	00	96 00
Aug.	16,	F. J. Bilsborrow...		20	00	
Aug.	16,	H. C. Bettinghouse, surety bond.....		13	00	
Aug.	29,	Recording mortgage		1	25	34 25
Sept.	8,	R. Wortz.....		20	00	
Sept.	20,	R. Wortz.....		15	00	
Sept.	20,	W. Davis.....		5	71	
Sept.	20,	J. Mason.....		30	00	
Sept.	20,	Wm. Apted.....		15	00	
Sept.	20,	Crape and drapery.		7	23	
Sept.	27,	Recording annual report at Lansing		60		
Sept.	28,	Recording and dis- charging mort- gages		1	75	95 29
Oct.	9,	Filing statement of Association with County Clerk....		1	00	
Oct.	12,	S. J. Tanner.....		15	00	
Oct.	18,	R. Rortz.....		20	00	
Oct.	18,	F. B. Cummings...		2	85	

Oct. 18, G. L. Roberts.....	\$20 00	
Oct. 18, Wm. Apted.....	6 42	\$65 27
Nov. 7, E. Sutherland.....	100 00	
Nov. 15, G. L. Roberts.....	20 00	
Nov. 15, R. Wortz.....	20 00	140 00
Dec. 20, R. Wortz.....	25 00	
Dec. 20, G. L. Roberts.....	24 28	
Dec. 20, F. C. Sneed.....	20 00	69 28

1900.

Jan. 10, West Mich., Print- ing Co	5 00	
Jan. 18, R. Wortz	3 57	
Jan. 17, J. Fisher.....	7 81	
Jan. 17, Thos. Donahue...	5 72	
Jan. 17, F. Weitbrecht.....	8 00	
Jan. 17, G. L. Roberts.....	20 00	
Jan. 17, O. From	2 14	52 24
Feb. 21, J. Kloosterhouse...	5 71	
Feb. 21, G. L. Roberts.....	10 00	15 71
Mar. 21, R. Roberts.....	20 00	
Mar. 21, C. Pifer.....	5 00	25 00
April 12, West Mich. Print- ing Co.....	1 50	
April 18, R. Roberts.....	14 28	15 78
		<u>\$ 657 34</u>

RECAPITULATION.

Receipts from May 1st, 1899 to April 30th, 1900	\$2,075 92
--	------------

Received as follows:

Dues and initiation	\$ 543 00	
Interest	310 82	
Donations	200 00	
Proceeds from History of G. R. Fire Department.....	1,022 10	
	<u>\$2,075 92</u>	<u>\$2,075 92</u>

Disbursements.....		\$ 657 34	
Disbursed as follows:			
Benefits paid members.....	620 01		
Incidentals, printing, recording mortgages, crape, secretary's bond, filing report with County Clerk.....	37 33		
		\$ 657 34	\$ 657 34
Receipts above disbursements.	\$1,418 58		
On hand May 1st, 1900, including mortgages.....	6,448 99		

ACCIDENTS TO MEMBERS OF THE DEPARTMENT.

1899

- May 26. J. Krupp, Lieutenant Truck Co. No. 4.
Hand cut by glass at fire 107 Canal street. Off duty eleven days.
- Aug. 12. Jas. Runions, Pipeman Steamer Co. No. 4. Sprained ankle, caused from playing ball. Off duty five days.
- Aug. 23. Ladderman Wm. Davis. Sprained arm while responding to alarm. Off duty eight days.
- Sept. 27. Ladderman John Fitzpatrick. Burned hand at Standard Table Works fire.
- Oct. 22. Capt. Denney. Sprained hand at S. P. Bennett coal office fire.
- Dec. 14. Thos. Donahue. Injured by slipping on ladder and striking breast against building at No. 5 Rumsey street.
- Dec. 14. Chas. Wheeler. Sprained ankle at station stepping off suction after blowing out flues. Off duty thirty-six days.

1900

- Jan. 3. Ladderman John Fitzpatrick. Fell from ladder at fire 931 and 933 Wealthy avenue. Not seriously hurt.
- Jan. 5. Wm. Waller, Ladderman Truck No. 3. Burned his eyes at the Gunn fire. Off duty three days.
- Jan. 5. John Mason, Pipeman Steamer No. 3. Burned his eyes at the Gunn fire. Off duty two days.
- Jan. 5. Edward Freeman. Had his face burned at the Gunn fire. No time lost.
- March 8. Lieutenant Spencer. Sprained his ankle while working at the fire at 200 Worden street. No time lost.
- April 20. Ladderman Chas. Sidell. Sprained wrist at fire 97 McConnell street.

ACCIDENTS AND FATALITIES TO CITIZENS.

1899.

- July 28. Mrs. Grontja, 20 and 22 McKendrick avenue. Badly burned. Not fatal.
- Dec. 8. L. Higer, corner Monroe and Pearl Sts. Burned his hand with extinguishing a fire in show window of store.
- Dec. 14. Leonard Venema, 5 Rumsey street. Suffocated.
- Dec. 16. Mrs. Radica, 78 Brenner Court. Burned her face and hands while trying to save her clothes from fire in closet. Not serious.

1900.

- Jan. 5. John Holt, Supt. Gunn Plant. Sprained his knee by falling through a floor during the fire.

-
- Feb. 3. J. W. Winegarden, 126 South Front street. Burned limbs, face and hands while trying to move a tank of gasoline which exploded in his hands.
- Feb. 20. Mrs. Ed. Stahl, 26 Woodlawn avenue. Burned to death by the explosion of an oil can.

VETERINARY REPORT.

GRAND RAPIDS, MICH., May 31, 1900.

To the Honorable Board of Police and Fire Commissioners:

GENTLEMEN--I herewith respectfully submit my fourth annual report for the year ending May 31, 1900, and again have the pleasure to report that no fatalities have occurred among the horses of the Department during that time, and that the stock at the present time are in excellent condition.

During the past year a severe case of Pinkeye developed in a new horse brought into the Department and was communicated to the other horses at Nos. 3 and 6 Engine Houses, but fortunately spread no farther and was finally successfully eliminated.

In my 1898 and 1899 reports I requested the Board to provide a suitable place for sick horses that they may be isolated from the healthy ones and again urge the necessity of such a place. During the outbreak of Pinkeye some of the apparatus at Nos. 3 and 6 were out of service for nearly a week, which I am confident would not have occurred had the first sick horses been promptly quarantined.

I wish to acknowledge the uniform courtesy extended to me by officers and men throughout the department and bespeak the same healthy condition throughout the year that now prevails.

Respectfully submitted,

ROBERTSON MUIR,

City Veterinarian.

FISCAL EXHIBIT.

Statement of receipts and expenditures of the
Fire Department covering the period from August
1, 1898 to July 1, 1899:

	DR.	CR.
To estimates prepared by Board to the Com-		
mon Council	\$ 113,349 25	
Less one-twelfth of salary account to con-		
form to change in fiscal year	7,865 30	
	\$ 105,483 95	
Less deducted by Common Council	10,000 00	
	\$ 95,483 95	
Appropriated by Common Council for new engine and		
equipment	5,000 00	
Amount transferred to wire and conduit account.	1,000 70	
Amount transferred from Police Department fund ...	2,200 00	
Unexpended balance previous year	1,499 57	
Deposited with City Treasurer for sundry items	2,421 89	
By salaries account		\$ 86,501 28
Veterinary services		333 30
Hay and bedding		1,843 95
Grain and feed		1,359 39
Fuel		1,366 00
Lighting		255 00
Repairs to engine houses		970 12
Wire, conduits, electric contract, etc.		2,174 58
Horse shoeing		1,131 90
Washing		472 73
Stationery		62 87
Hose		258 80
Horses		1,415 00
Electric supplies		221 06
Telephone rents		24 00
Repairs to apparatus		999 43
General supplies		1,584 69
Fire hats		72 00
One-half Secretary's salary		550 00
Expense Secretary's office		51 23
Incidental and contingent		520 11
City electrical inspector		507 50
Steam fire engine		4,300 00
Unexpended balance		692 18
	\$ 107,607 11	\$ 107,607 11

DEPARTMENT OFFICERS.

Name	Rank	Entered Service	Born	Nativity
Henry Lemoin.....	Fire Marshal	July, 1873	1844	Ohio
H. C. Bettinghouse...	Ass't Fire Marshal ..	June, 1880	1849	Ohio
David Walker	Chief First Battalion	Dec., 1880	1848	Canada

ELECTRICAL DEPARTMENT.

Name	Rank	Nativity	Entered Service
M. G. Canfield.....	Superintendent.....	Illinois	Jan.....1897
Jos. Newman, Jr.	Municipal Inspector. . .	England....	Oct.....1898
H. J. Carlin.	Lineman.....	Michigan...	Feb 1898
Fred M. Ruck	Inspector	Illinois	May .....1899
A. P. Miller.....	Inspector	Michigan...	Aug. 1899

COMPENSATION.

	Per Year	Per Day First Year	Second Year	Third Year
Marshal.....	\$ 2,000 00	.....	.....	.....
First Assistant Marshal	1,500 00	.....	.....	.....
Chief of Battalion.....	1,200 00	.....	.....	.....
Superintendent Fire Alarm	1,500 00	.....	.....	.....
Driver supply wagon .....	.....	\$ 1 55	\$ 1 80	\$ 1 90
Captains .....	.....	2 50	.....	.....
Lieutenants .....	.....	2 10	.....	.....
Engineers.....	.....	2 74	.....	.....
Stokers, full time.....	.....	1 55	1 85	2 00
Drivers .....	.....	1 55	1 80	1 90
Laddermen .....	.....	1 55	1 85	2 00
Pipemen .....	.....	1 55	1 85	2 00
Linemen .....	.....	1 80 to 2 00	.....	.....
Inspectors	Per Month	\$50 00	\$55 00	\$57 00

FIRE STATION NO. 1.**LOCATION, EQUIPMENT AND PERSONNEL.**

LOCATION—Lagrange street, between Island and Oakes.

EQUIPMENT — One Hose Wagon, one City Truck and one Chemical Engine.

NO. 1 HOSE COMPANY.

Name	Rank	Badge	Entered Service	Born	Nativity
Isaac Sonke.	Captain .....	.....	Nov., 1884	1862	Michigan
John H. Connor.....	Lieutenant. ....	.....	Aug., 1887	1861	New York
Jay Baker	Driver.....	5	Aug., 1893	1867	New York
George McCaul	Pipeman	6	Aug., 1891	1856	Michigan
Thos. McDonnell	Pipeman	7	Oct., 1888	1858	Ireland
George T. Lynch	Pipeman.....	56	Aug., 1899	1874	Canada

NO. 1 TRUCK COMPANY.

Name	Rank	Badge	Entered Service	Born	Nativity
Christopher Denney..	Captain .....	.....	Aug., 1887	1856	Canada
Morris O'Keeffe	Lieutenant .....	.....	July, 1892	1868	Ohio
Emery Cole.....	Driver	68	May, 1899	1869	Kansas
Frank Mutchler.....	Ladderman	11	March, 1892	1869	Michigan
Thomas Faulkner	Ladderman	13	May, 1895	1867	Michigan
Charles Sidell	Ladderman	12	Nov., 1899	1867	Wisconsin
Charles Colberg	Ladderman .....	.....	March, 1900	1877	Michigan
John Haggerty.....	Ladderman	15	March, 1900	1870	Michigan

NO. 1 CHEMICAL COMPANY.

Name	Rank	Badge	Entered Service	Born	Nativity
Wm. Esterhill.....	Lieutenant .....	.....	June, 1894	1866	New York
Lewis Gordon	Driver	37	Sept., 1899	1873	Michigan
John Miller.....	Relief Driver .....	.....	Sept., 1899	1876	Michigan
Wm. O'Donahue.....	(Not confirmed) Pipeman	16	Sept., 1896	1877	Canada

FIRE STATION NO. 2.

LOCATION, EQUIPMENT AND PERSONNEL.

LOCATION—Barclay street, near Bridge street.

EQUIPMENT—One Hose Wagon and one second size La France Engine.

NO. 2 ENGINE COMPANY.

Name	Rank	Badge	Entered Service	Born	Nativity
J. A. Brown.....	Captain .....	.....	May, 1881	1847	Maine
F. B. Cummings	Lieutenant .....	.....	Nov., 1892	1866	Michigan
Chas. Simmons	Engineer.....	.....	July, 1890	1864	Nether-lands
Paul Nelson	Ass't Engineer ..	.....	May, 1899	1868	Canada
J. B. Taylor.	Driver	17	Feb., 1885	1843	Ohio
H. P. Beckwith.....	Driver	18	June, 1893	1869	Michigan
F. H. Wildberger	Driver	19	Aug., 1895	1870	Germany
J. H. Toren	(Marshal's buggy) Pipeman	21	June, 1895	1862	Michigaa
Thos. Fitzpatrick. ...	Pipeman	22	June, 1896	1872	Michigan
John Whalen	Pipeman	38	March, 1897	1866	Michigan

FIRE STATION NO. 3.**LOCATION, EQUIPMENT AND PERSONNEL.**

LOCATION—Corner Front and Second streets.

EQUIPMENT—One Hose Wagon, one first size American Steam Fire Engine, one City Truck and one Chemical Engine.

NO. 3 ENGINE COMPANY.

Name	Rank	Badge	Entered Service	Born	Nativity
Wm. F. Croll	Captain .....	.....	Dec., 1890	1897	New York
Chas. Bischoff	Lieutenant .....	.....	May, 1897	1871	Michigan
Frank G. Hill	Engineer .....	.....	Oct., 1894	1870	Michigan
Fred Vanderlinde ...	Ass't Engineer ..	.....	March, 1899	1877	Netherlands
Leroy Chard	Pipeman	78	March, 1907	1871	Michigan
Luke Heyman	Pipeman	61	Aug., 1898	1871	Michigan
Geo. Christie	Pipeman .....	.....	April, 1900	1872	Michigan
Michael Murphy	(Not confirmed) Driver	27	Feb., 1887	1858	Michigan
Wm. Huff	Driver	34	March, 1897	1866	Ohio

NO. 3 TRUCK COMPANY.

Name	Rank	Badge	Entered Service	Born	Nativity
Frank Fenn	Captain .....	.....	Oct., 1888	1859	Michigan
Wm. Curtis	Lieutenant .....	.....	April, 1894	1866	Michigan
Chas. N. Beebe	Driver	28	Dec., 1886	1865	Michigan
John Kloosterhouse ..	Ladderman	29	Aug., 1894	1867	Michigan
Theo. Findlay	Ladderman	65	Sept., 1897	1875	Michigan
Ray Wertz	Ladderman	24	July, 1898	1874	Michigan
Ben Emaus	Ladderman	26	July, 1899	1868	Michigan
John Clayton	Ladderman	23	Aug., 1899	1870	Michigan
Joseph Katz	Ladderman .....	.....	.....	.....	.....
	(Not confirmed)				

NO. 3 CHEMICAL COMPANY.

Name	Rank	Badge	Entered Service	Born	Nativity
Fred J. Hensler	Lieutenant .....	.....	Jan., 1892	1864	Michigan
Wm. Waller	Pipeman	33	Aug., 1896	1872	Canada
Jas. Brantigan	Driver	35	March, 1890	1861	Michigan

FIRE STATION NO. 4.**LOCATION, EQUIPMENT AND PERSONNEL.**

LOCATION—Corner Kent street and Crescent avenue.

EQUIPMENT—One Arrow Aerial Truck, one extra special size American Steam Fire Engine and one special size Hose Wagon.

NO. 4 ENGINE COMPANY.

Name	Rank	Badge	Entered Service	Born	Nativity
John Goodrich.....	Captain .....	.....	Nov., 1887	1862	Michigan
John Younglove.. ..	Lieutenant. ....	....	July, 1893	1867	Illinois
Dan. Lamore	Engineer .....	....	Nov., 1891	1863	Michigan
Theo. Slovinski.....	Ass't Engineer ..	.....	March, 1897	1869	Bohemia
Wm. Delaney	Pipeman	20	Aug., 1882	1864	Michigan
Frank Kreiser	Pipeman	79	July, 1897	1874	Michigan
Walter Corbin	Pipeman	40	Dec., 1897	1876	Michigan
Jas. Runions.....	Pipeman	39	Feb., 1899	1875	Michigan
Howard Nicholson....	Driver	36	Oct., 1895	1873	Michigan
Herbert Glidden.....	Driver..	78	April, 1900	1872	Maine

NO. 4 TRUCK COMPANY.

Name	Rank	Badge	Entered Service	Born	Nativity
Geo. Boughner.....	Captain .....	.....	Sept., 1888	1867	Canada
Jacob Krupp.....	Lieutenant .....	.....	March, 1892	1862	Michigan
Fred Higgins	Ladderman	45	Feb., 1895	1873	Michigan
Samuel Pomeroy....	Ladderman	44	Dec., 1891	1868	Illinois
Charles Reilly	Ladderman	46	April, 1896	1874	Michigan
Hessel Yntema	Ladderman	47	March, 1897	1866	Michigan
Claude Peifer	Ladderman	74	April, 1899	1876	Michigan
Charles Lamore	Supply Driver ...	49	March, 1889	1856	Michigan
Seitse Postmus.....	Ladderman .....	.....	Feb, 1900	1878	Holland
Otis Armstrong	Driver . (Not confirmed)	.....	April, 1900	1872	Michigan

FIRE STATION NO. 5.**LOCATION, EQUIPMENT AND PERSONNEL.**

LOCATION—Corner Leonard and Canal streets.

EQUIPMENT—One Hose Wagon and one extra first size Waterous Steam Fire Engine.

NO. 5 ENGINE COMPANY.

Name	Rank	Badge	Entered Service	Born	Nativity
Truman M. Smith	Captain ....	.....	Nov., 1878	1848	Penn.
Wesley L. White	Lieutenant .....	.....	Oct., 1895	1872	Michigan
Wm. H. Harris	Engineer .....	.....	June, 1883	1847	New York
Jacob C. Weaver	Ass't Engineer ..	.....	June, 1894	1866	Michigan
Oliver From	Driver	50	April, 1871	1850	Norway
Chas. Shook	Driver	51	Dec., 1891	1857	Michigan
Clarence Harter	Pipeman	52	June, 1895	1859	New York
John W. Quigg	Pipeman	54	April, 1897	1876	Michigan
Edward Freeman	Pipeman	53	July, 1899	1872	Michigan

FIRE STATION NO. 6.

LOCATION, EQUIPMENT AND PERSONNEL.

LOCATION—Grandville and Ellsworth avenues.

EQUIPMENT—One Hose Wagon and one extra first size La France Steam Fire Engine.

NO. 6 ENGINE COMPANY.

Name	Rank	Badge	Entered Service	Born	Nativity
Luke Kerwin	Captain .....	.....	Oct., 1880	1859	New York
Alex. Miller	Lieutenant .....	.....	April, 1881	1853	Michigan
Wm. Youngs... ..	Engineer... ..	.. ..	Oct., 1885	1856	N. J.
Chas. Wheeler.....	Ass't Engineer .....	.....	July, 1890	1862	Michigan
Thos. Donahue	Pipeman	55	July, 1887	1854	New York
Peter Nagelkirk,.....	Pipeman	57	Oct., 1886	1864	Michigan
Edward Jennings.....	Pipeman	8	March, 1897	1871	Michigan
John Kerwin	Driver	58	Oct., 1884	1858	New York
Edgar Denton.....	Driver	59	Sept., 1896	1867	Michigan

FIRE STATION NO. 7.**LOCATION, EQUIPMENT AND PERSONNEL.**

LOCATION—Madison avenue, near Fifth avenue.

EQUIPMENT—One Hose Wagon and one second size Ahrens Steam Fire Engine.

NO. 7 ENGINE COMPANY.

Name	Rank	Badge	Entered Service	Born	Nativity
Richard Roberts.. . . .	Captain .....	.....	June, 1880	1853	New York
Wm. Spearer	Lieutenant .....	.....	May, 1880	1866	New York
George L. Roberts	Engineer.....	.....	Sept., 1878	1847	Mass.
Andrew Rose	Ass't Engineer ..	.....	April, 1899	1865	New York
John Fisher	Pipeman	60	April, 1894	1871	Michigan
Garret J. Sonke	Pipeman	62	March, 1896	1867	Michigan
Wm. C. Bremer.	Driver ..	63	Dec., 1891	1865	Michigan
Amos O. Poe.....	Driver	64	Aug., 1899	1878	Ohio
Nelson W. Hill	Pipeman .....	.....	Feb., 1900	1875	Michigan
	(Not confirmed)				

FIRE STATION NO. 8.**LOCATION, EQUIPMENT AND PERSONNEL.**

LOCATION—Corner Jefferson and Veto streets.

EQUIPMENT—One Hose Wagon and one second size La France Steam Fire Engine.

NO. 8 ENGINE COMPANY.

Name	Rank	Badge	Entered Service	Born	Nativity
O. E. Dunn...	Captain .....	.....	Aug., 1888	1861	Michigan
Jos. Brown.....	Lieutenant .....	.....	Oct., 1890	1869	Michigan
John Sommer.	Engineer .....	.....	June, 1888	1835	Bohemia
Elmer Johnson	Ass't Engineer ..	.....	July, 1891	1871	New York
John Renihan.....	Pipeman	67	May, 1884	1835	New York
Dennis Hayes.....	Pipeman	66	May, 1892	1866	Ireland
John Fitzpatrick	Pipeman	9	Jan., 1895	1871	Michigan
John Rafferty	Driver	30	Jan., 1897	1872	Michigan
Fred Calkins.....	Driver	72	1900	1872	Michigan

FIRE STATION NO. 9.**LOCATION, EQUIPMENT AND PERSONNEL.**

LOCATION—Corner West Leonard and Quarry streets.

EQUIPMENT—One Hose Wagon.

NO. 9 ENGINE COMPANY.

Name	Rank	Badge	Entered Service	Born	Nativity
Frank Van Steenberg	Captain .....	...	May, 1881	1860	New York
Edgar S. Aldrich	Lieutenant .....	.....	Oct., 1891	1859	New York
Richard Root	Pipeman	10	May, 1893	1864	Michigan
Jerry Tolsma	Pipeman	71	July, 1893	1866	Nether-lands
Frank A. Beebe	Driver	70	June, 1899	1872	Michigan

FIRE STATION NO. 10.

LOCATION, EQUIPMENT AND PERSONNEL.

LOCATION—Corner Hall and Ionia streets.

EQUIPMENT—One Hose Wagon.

NO. 10 ENGINE COMPANY.

Name	Rank	Badge	Entered Service	Born	Nativity
Geo. Cole	Captain .....	.....	April, 1891	1868	Michigan
Wm. Bischoff	Lieutenant .....	.....	March, 1897	1868	Michigan
James Mathie	Driver .. .	77	March, 1897	1867	Scotland
Peter De Boer	Pipeman	14	Oct., 1898	1870	Holland
Wm. Murphy	Pipeman	75	June, 1897	1869	Michigan
Edgar Griffith	Pipeman	43	Sept., 1897	1878	Michigan

ANNUAL REPORT
OF THE
SUPERINTENDENT OF FIRE ALARM.

GRAND RAPIDS, MICH., May 1, 1900.

To the Honorable Board of Police and Fire Commissioners:

GENTLEMEN—I have the honor to present to you the annual report of the Fire Alarm Telegraph and Municipal Inspection for the year ending April 30th, 1900.

MUNICIPAL INSPECTION.

We commence the second year of Municipal Inspection of wiring with the feeling that its usefulness has been fully proven. Only a very small percentage of fires have had an electrical origin; and while fires will always occur from this cause they will, as old installations are made to conform to our present standards, become of extreme rarity.

We have, during the past year, issued 1135 permits to do electrical construction; made 2335 inspections, including old and new installations and alterations; issued 452 certificates, covering 4852 incandescent lights, 223 arc lights, 186 motors, aggregating 613 h. p. and 7 generators, aggregating 166 k. w., for which \$505.00 was collected.

Besides the wiring used in the interior of buildings, with which we are mostly concerned and which

takes the major part of our time, we have been able to do much to improve the condition of the wiring on roofs in the business district. Fixtures have been erected which raise the wires above the heads of firemen and others whose occupations take them to these locations, in this way removing to a great extent the danger of accidental contacts which often prove fatal.

In reviewing the work of the past year, I wish to call the attention of your Honorable Body to the fact that with the rapid improvements which are being made in both electrical construction and apparatus, that certain modifications in our rules become necessary from time to time to keep pace with these improvements, and compel the use of those appliances best suited to insure the safety of life and property. To this end I submit to you for your consideration the rules known as "The National Electrical Code of 1899" as being, with a few modifications to suit local conditions, best adapted to the needs of this department.

UNDERGROUND WORK.

We have made the following changes with our cables in Monroe street:

We laid a new pipe and placed in service 1200 feet of 20-wire cable to replace the 15-wire okonite cable.

In Oakes street we drew out 600 feet of 6-wire lead cable and replaced it with an 8-wire cable.

On East Bridge street we pulled in 270 feet of 15-wire cable to replace 270 feet of okonite cable.

On Ottawa street we drew in 750 feet of 30-wire

cable to replace the 25-wire cable between Lyon street and Crescent avenue.

The underground system is now in first class condition.

POLE WORK.

There was a large amount of changing wires, and moving poles to conform to new grade lines and give room for the Telephone Companies in various parts of the city, and in connection with this work we find that while the number of poles in the city have more than doubled in the last two years, our "line troubles" have greatly lessened. The Postal Telegraph Company rebuilt our lead on South Ottawa and Hilton streets, from Fulton street to Third avenue, in first class condition, for the privilege of using the same for their lines coming into the city from the south. There are several places in the city that the Telephone Companies have made changes in our construction to benefit their business. There should be about fifty new poles set this summer to replace old ones that are in bad condition. Our pole lines would then be in good condition.

The storage battery system, installed two years ago, is in as good condition as when first installed, the plates showing very little signs of depreciation.

I wish to recommend that if an engine house is built the coming year in the east end of the city, that the Fire Department call line be made a copper metallic circuit. The present line is a grounded iron line that has been extended from time to time from the beginning of the Department, and it is very

difficult at times to locate defects on the line until some portion of it is out of service.

Attached is an inventory of the property of this Department.

In conclusion, I wish to again thank the Honorable Board for the considerate manner I have been treated during the year.

Respectfully submitted,

M. G. CANFIELD,
Supt.

STREETS OCCUPIED

BY

FIRE DEPARTMENT POLES, AND THE NUMBER OF POLES IN EACH STREET.

Butterworth avenue.....	19
Straight street.....	14
Marion street.....	20
Veto street	8
Court street	4
Fulton street	9
Mt. Vernon street.....	6
Watson street.....	22
Jefferson street	32
Jackson street	23
West Bridge street.....	4
First street.....	1
Pine street	14
Alley from Pine street.....	2
Lane avenue... ..	2
Fourth street.....	16
Stocking street	4
Fifth street	1
Alpine avenue.....	38
Eleventh street	18
Tamarack street.....	7
Lincoln street.....	11
North street.....	16
Elizabeth street....	9

Broadway	11
Quarry street.....	21
Webster street.....	13
Crosby street.....	11
Front street	6
West Leonard street	2
Calder street.....	10
Alley from Cherry street to Wealthy avenue..	9
Goodrich street.....	2
Ellsworth avenue	2
Wealthy avenue.....	42
Oakes street.....	7
Buchanan street.....	6
Prescott street.....	4
Hilton street.....	16
Godfrey avenue.....	22
Martha street.....	6
Kent street.....	23
Oriel Cabinet Co.....	1
Trowbridge street.....	3
Walbridge street.....	3
Canal street	44
Chair Factory	2
Sweet street.....	7
College avenue.....	1
Lafayette street	23
East Leonard street.....	11
North avenue.....	10
Madison street.....	9
Coit avenue.....	16
Sophia avenue	6
Diamond street.....	36
Livingston street.....	13
Newberry street	8

Bradford street.....	16
Fountain street.....	12
Crescent avenue.....	17
Turner street.....	40
Tenth street.....	3
Eighth street.....	19
Sixth street	28
Second street	16
Seward street	12
D street.....	1
Shawmut avenue.....	6
Winter street.....	4
Palmer avenue.....	11
Plainfield avenue.....	23
Coldbrook street.....	5
Sheldon street alley.....	23
Sheldon street	2
Island street.....	2
Chief Walker's house	6
Wenham avenue.....	11
Jefferson avenue	65
Cherry street.....	26
Union street.....	1
Prospect street	17
East Fulton street.....	3
Washington street	8
Terrace avenue	4
Third avenue.....	6
Maple street.....	3
Fifth avenue.....	42
Garden street.....	7
Griggs avenue	9
Dickinson avenue.....	10
Madison avenue.....	7

Benson street.....	4
Cummings avenue	11
East street	41
Houseman street.....	9
Hastings street....	33
Coit avenue alley.....	5
Barclay street	5
Sinclair street	6
Logan street.....	37
Henry street.....	5
Thomas street	11
Hall street.....	16
Grandville avenue.....	11
Ionia street.....	11
Bartlett street.....	13
Division street.....	2
Second avenue	9
<hr/>	
Total.....	1383
Fulton street bridge fixtures.....	5
Sixth street bridge fixtures.....	5
Leonard street bridge fixtures.....	7

**FIRE DEPARTMENT ON CITIZENS' TELEPHONE
COMPANY'S POLES.**

- 6 Poles on West Bridge street.
- 5 Poles on Valley avenue.
- 12 Poles on First street.
- 1 Pole on No. 2 Engine House alley--private line.
- 11 Poles on Union street.

**FIRE DEPARTMENT ON BELL TELEPHONE
COMPANY'S POLES.**

- 2 Poles on West Leonard street.
- 4 Poles on Front street.
- 70 Poles on Hall street.
- 5 Poles on Wealthy avenue, east of Division St.
- 5 Poles on Wealthy avenue, east of Madison Ave.
- 6 Poles on College avenue, north of Cherry St.
- 1 Pole on Cherry and Prospect streets.
- 6 Poles on College avenue, south of Lyon street.

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FIRE DEPARTMENT ON G. R. & I. R. R. POLES.

- 1 Pole, the loop to box 361.

CITIZENS' TELEPHONE CO. ON FIRE DEPARTMENT POLES.

- 1 Pole on Court street.
- 1 Pole on Butterworth avenue.
- 4 Poles on Straight street.
- 1 Pole on Watson street.
- 8 Poles on Alpine avenue.
- 10 Poles on Eleventh street.
- 1 Pole on Elizabeth street.
- 1 Pole on Tenth street.
- 5 Poles on Front street.
- 4 Poles on Crescent avenue.
- 6 Poles on Kent street.
- 14 Poles on Coit avenue.
- 1 Pole on Trowbridge street.
- 4 Poles on East Leonard street.
- 9 Poles on North avenue.
- 9 Poles on Madison street.

- 2 Poles on Oakes street.
- 1 Pole on Ellsworth avenue.
- 3 Poles on Ellsworth avenue alley.
- 6 Poles on Buchanan street, south of Wealthy avenue.
- 1 Pole on Fifth avenue and Hilton street.
- 1 Pole on Fifth and Grandville avenues.
- 1 Pole on Godfrey avenue.
- 4 Poles on Oakes street, from alley to Division street.
- 23 Poles on alley from Island street to Wenham avenue.
- 11 Poles on Wenham avenue.
- 2 Poles on Jefferson avenue.
- 2 Poles on Maple street.
- 3 Poles on Fifth avenue.
- 9 Poles on Dickinson avenue.
- 37 Poles on Logan street.
- 3 Poles on Thomas street.
- 1 Pole on Cherry street.
- 8 Poles on Washington street.
- 4 Poles on Terrace avenue.
- 16 Poles on Diamond street.
- 25 Poles on Wealthy avenue.
- 1 Pole on Prospect and Fountain streets.
- 4 Poles on Hastings street.
- 6 Poles on Sinclair street.
- 1 Pole on College avenue, north of Bridge street.
- 1 Pole on College avenue and Lyon streets.
- 5 Poles on Fountain street.
- 1 Pole on Diamond and Cherry streets.

BELL TELEPHONE CO. ON FIRE DEPARTMENT POLES.

- 1 Pole on Calder street.
- 10 Poles on Dickinson avenue.
- 1 Pole on Ellsworth avenue alley.
- 17 Poles on Fifth avenue.
- 7 Poles on Garden street.
- 6 Poles on Godfrey avenue.
- 5 Poles on Island street.
- 54 Poles on Jefferson avenue.
- 2 Poles on Oakland avenue.
- 4 Poles on Oakes street.
- 3 Poles on Prescott street.
- 17 Poles on Prospect street.
- 24 Poles on Sheldon alley.
- 14 Poles on Wealthy avenue.
- 8 Poles on Washington street.
- 23 Poles on Cherry street.
- 9 Poles on Griggs avenue.
- 3 Poles on Fulten street, west of Prospect street.
- 12 Poles on Hastings street.
- 3 Poles on No. 2 Alley, north of Bridge street.
- 4 Poles on College avenue, north of Bridge street.
- 3 Poles on College avenue, south of Crescent avenue.
- 9 Poles on Fountain street.
- 2 Poles on Kent street, north of Sixth street.
- 26 Poles on Canal street.
- 16 Poles on Plainfield avenue.
- 2 Poles on Trowbridge street.
- 2 Poles on Livingston street.
- 2 Poles on Madison street.
- 2 Poles on Straight street, north of Butterworth avenue.

- 8 Poles on Jefferson street, north of Veto street.
- 4 Poles on Winter street.
- 5 Poles on Jackson street.
- 9 Poles on Marion street.
- 22 Poles on Sixth street.
- 12 Poles on North street.
- 8 Poles on Elizabeth street.
- 2 Poles on Eighth street.
- 3 Poles on Crosby street.

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EDISON LIGHT CO. ON CITY POLES.

- 3 Poles back of No. 1 Engine House in alley.
- 1 Pole on Washington street.
- 7 Poles on Plainfield avenue, private line.
- 1 Pole on Jefferson street, private line.

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INVENTORY

OF

MATERIAL CONSTITUTING THE FIRE ALARM SYSTEM.

1	Ten-circuit repeater and testing board	\$ 950 00
11	Line galvanometers, \$4.00	44 00
4	Single-point relays, \$3.00	12 00
120	Fire alarm boxes	9,500 00
13	15-inch station gongs, \$75.00	975 00
1	4,000-lb. bell and striker	400 00
1	1,300-lb. bell and striker	250 00
22	4-inch relay bells, \$4.00	88 00
8	Tower bells, 125 to 160 lbs., \$22. ..	176 00
11,619	Feet iron pipe for conduits, 14c. .	1,626 66
	Underground cables, manholes and terminal boxes	2,693 20
1	Ten-circuit switch board and storage battery	1,250 00
56	Cells salomonic battery, 40c.	22 40
22	Telephones with call keys, \$4.75. ..	104 50
120	Miles No. 9 E. B. B. galvanized iron wire, \$20.00 per M.	2,400 00
7,025	Feet No. 14 okonite wire at boxes, 4 cents	281 00
3,300	Feet $\frac{1}{2}$ -inch iron pipe at boxes, 2 $\frac{1}{2}$ c ..	82 50
104	30-ft. poles, \$1.50	156 00
531	35-ft. poles, \$1.80	955 80

207 40-ft. poles, \$3.50	\$ 724 50
204 45-ft. poles, \$5.00	1,020 00
274 50-ft. poles, \$6.00	1,644 00
18 55-ft. poles, \$8.00	144 00
46 60-ft. poles, \$9.00	414 00
17 Bridge fixtures, \$5.00	85 00
	<hr/>
	\$25,997 56

MISCELLANEOUS MATERIAL.

2 Office desks	\$ 28 00
3 Office chairs	12 50
1 Office clock	8 00
1 Bridge and galvanometer	100 00
250 Glass insulators, 3½c	8 75
250 Wood pins, \$13.00 M	3 25
175 Iron pins, 4½c	7 88
4 Miles No. 9 E. B. B. galvanized iron wire, \$16.00	64 00
6 Paint brushes	3 00
200 Key signs, \$40.00 M	8 00
10 Lbs. salamoniac, 10c	1 00
6 Old gongs, \$5.00	30 00
250 6x8 glass jars, 8c	20 00
Miscellaneous bolts	4 00
18 40-ft. poles, \$3.50	63 00
2 55-ft. poles, \$9.00	18 00
	<hr/>
	\$359 38

CONSTRUCTION TOOLS.

1 Take-up reel	\$ 14 00
1 Pay-out reel	5 00
14 Pike poles, 40c	5 60
1 Pole gin	2 00

1 35-ft. extension ladder	1 25
1 6-ft. step ladder	50
2 Log chains, \$1.00	2 00
1 Tree trimmer	1 00
300 Feet hand cord rope	1 50
2 Pairs light wire stretchers, \$1.50	3 00
1 Pair heavy wire stretchers	3 50
1 Pair small pulley blocks	75
1 Pair heavy pulley blocks	3 00
2 Tamp bars, 50c	1 00
2 Hand axes, 75c	1 50
1 Pipe cutter	1 25
2 Pair connectors, \$1.50	3 00
3 Pairs pliers	3 00
2 Monkey wrenches, 50c	1 00
1 Brace	1 50
1 Tape line	3 50
2 Saws	1 50
1 1½-inch wood chisel	50
Plumbers' outfit	2 50
1 Large gasoline pot	3 00
1 Small gasoline pot	2 00
3 Cant hooks, 75c	2 25
6 Draw shaves, \$1.00	6 00
1 Hoe	25
1 Paving tamp	50
1 Small sieve	40
7 Shovels, 75c	8 25
6 Crow bars, \$2.00	12 00
1 Hack saw frame	1 00
1 Expansion bitt	1 75
1 Set bits, ¼ to 1-inch	3 50
1 Magneto bell	5 00
7 Screw drivers, 50c	3 50

Twist drills	\$ 3 50
3 Punches	90
1 Heavy solder, copper.....	60
2 Pairs climbing spurs, \$3.00 ...	6 00
1 Telegraph wagon.....	75 00
1 Old wagon.....	15 00
1 Pair wheels for poles.....	15 00
1 Harness	20 00
2 Horse blankets.....	3 00
	<hr/>
	\$248 75

RECAPITULATION.

Fire Alarm Telegraph System.....	\$25,997 56
Miscellaneous Material.....	359 38
Construction Tools.....	248 75
	<hr/>
	\$26,605 69

INVENTORY OF REALTY, APPARATUS, STOCK AND SUPPLIES:

No. 1 Engine House and lot.....	\$ 5,000 00	
No. 1 Apparatus, stock and supplies....	7,656 98	
	<hr/>	\$ 12,656 98
No. 2 Engine House and lot.....	9,252 08	
No. 2 Apparatus, stock and supplies....	6,435 95	
	<hr/>	15,688 03
No. 3 Engine House and lot.....	13,000 00	
No. 3 Apparatus, stock and supplies....	13,834 00	
	<hr/>	26,834 00

No. 4 Engine House and lot.....	\$17,500 00	
No. 4 Apparatus, stock and supplies....	12,500 00	
		\$30,000 00
No. 5 Engine House and lot.....	10,385 15	
No. 5 Apparatus, stock and supplies....	7,385 82	
		17,770 97
No. 6 Engine House and lot	7,781 05	
No. 6 Apparatus, stock and supplies....	8,854 51	
		16,635 56
No. 7 Engine House and lot.....	8,775 00	
No. 7 Apparatus, stock and supplies....	7,500 00	
		16,275 00
No. 8 Engine House and lot.....	8,176 00	
No. 8 Apparatus, stock and supplies....	9,460 72	
		17,636 72
No. 9 Engine House and lot.....	8,750 00	
No. 9 Apparatus, stock and supplies....	2,352 03	
		11,102 03

No. 10 Engine House and lot.....	\$ 8,800 00	
No. 10 Apparatus, stock and supplies....	<u>6,400 00</u>	\$15,200 00
No. 11 Lot.....	1,500 00	
Reserve apparatus.	<u>1,500 00</u>	3,000 00
Fire Alarm Tele- graph System...	25,997 56	
Miscellaneous Ma- terial and Con- struction tools..	<u>608 13</u>	
		<u>26,605 69</u>
		\$209,404 98

COMPARATIVE STATEMENT OF LOSSES BY FIRE SINCE 1871.

From Sept. 15, 1871, to Sept. 15, 1872,	\$187,235 00
" " " 1872, " " " 1873,	421,145 00
" " " 1873, " " " 1874,	120,950 00
" " " 1874, " " " 1875,	353,400 00
" " " 1875, " " " 1876,	80,000 00
" " " 1876, " " " 1877,	17,710 00
" " " 1877, " " " 1878,	31,852 79
" " " 1878, " " " 1879,	35,573 32
" " " 1879, " " " 1880,	16,254 00
" " " 1880, " " " 1881,	25,714 00
" " " 1881, " " " 1882,	169,739 00
" " " 1882, " " " 1883,	77,581 40
" " " 1883, " " " 1884,	101,327 50
" " " 1884, " " " 1885,	19,798 10
" May 1st, 1885, " May 1st, 1886,	75,747 38
" " " 1886, " " " 1887,	58,148 75
" " " 1887, " " " 1888,	238,470 89
" " " 1888, " " " 1889,	41,042 00
" " " 1889, " " " 1890,	78,914 52
" " " 1890, " " " 1891,	198,631 55
" " " 1891, " " " 1892,	148,655 71
" " " 1892, " " " 1893,	163,501 50
" " " 1893, " " " 1894,	79,305 77
" " " 1894, " " " 1895,	49,318 22
" " " 1895, " " " 1896,	104,692 63
" " " 1896, " " " 1897,	43,264 89
" " " 1897, " " " 1898,	100,983 47
" " " 1898, " " " 1899,	123,162 60
" " " 1899, " " " 1900,	116,480 70

TABLE GIVING A COMPLETE REPORT OF EACH FIRE DURING THE YEAR.

Reports of Fires being corrected to adjust losses as near as attainable.

Date 1899	Time	No Box	Location	Name of Occupant	Name of Owner	Occupied as	Class of Bldg.	Cause of Fire	Loss	Insur- ance	Value
May 1	2 35pm	135	Rear 27 Clinton	Anthony Pohl	W. H. Jennings	Dwelling	Frame	Not ascertained	\$ 150 00	\$ 250 00	\$ 675 00
1	1 13pm	Still	Cor. College and Wealthy aves.	Vacant lot	Kendall Estate		Rub- bish	Not ascertained			
1	11 58am	Still	Rear 553 Broad- way	Children	Philip Boos	Playhouse	Wood	Kerosene oil igniting woodwork	2 00		5 00
2	6 43pm	Still	197 E. Bridge st.	B. E. Barrows & oth	E. E. Walker	Artist rooms	Frame	Gasoline stove	21 00	4900 00	10100 00
2	9 47am	321									
5	8 21pm	351	390 Grandville av	Cyrus Fisher	Benj. Spumstra	Dwelling	Frame	Not ascertained	90 00	1000 00	1150 00
5	9 10am	723	139 Butterworth	L. Dolan and others	Converse Estate	Grocery	Frame	Not ascertained	36 00	3100 00	7500 00
5	7 32am	Still	Lafayette and Cedar	City	City property	Fence around reservoir	Fence	Not ascertained			
6	3 12pm	Still	Rear 393 Henry	A. F. Cobb	Burt Fish	Barn	Frame	Spontaneous combust'n	50 00		550 00
8	11 45pm	314	Rear 24 Cherry	Unoccupied	Juidah Hayless		Frame	Not ascertained	97 00	2150 00	4945 00
8	8 07am	Still	964 S. Lafayette	A. Dennison	O. A. Proniner	Dwelling	Frame	Not ascertained	10 00	1800 00	2400 00
8	1 04am	613	323 N. Front st.	H. A. Olmstead	F. G. Fritz	Dwelling	Frame	Lamp explosion	20 00	2000 00	2500 00
8	5 38pm	725									
9	7 34am	Still	R'r 1005 Gilbert	S. S. Chamberlin	S. S. Chamberlin	Barn	Frame	Not ascertained	200 00	900 00	500 00
9	7 35am	253	R'r 1005 Gilbert	S. S. Chamberlin	S. S. Chamberlin	Barn	Frame	Same fire as still 7.34am			
10	5 19am	214	323 E. Fulton st.	J. S. Lawrence	J. S. Lawrence	Dwelling	Frame	Not ascertained	400 00	13000 00	17500 00
15	9 50pm	613	Front, bet. 8th and 9th sts.	Cyrus E. Perkins and others.	Cyrus E. Perkins	Veneer Works	Brick	Not ascertained	44500 00	35500 00	108000 00

REPORT OF FIRES—Continued.

Date 1899	Time	No. Box	Location	Name of Occupant	Name of Owner	Occupied as	Class of Bldg.	Cause of Fire	Loss	Insur. ance	Value
May 18	11 45pm	Still	237 E. Bridge st.	Kugel Bros.	A. Austin	Upholstry shop	Brick	Cigar stub igniting bur- lap.	.....	\$ 1700 00	\$ 5400 00
18	6 28pm	622	166 Fourth st.	Don Broski	Frank Milanewski	Dwelling	Frame	Chimney burning out.	.....	.....	.....
19	6 41am	Still	6 W. Division st.	J. Friar	J. Friar	Dwelling	Brick	Chimney burning out.	.....	.....	.....
20	10 45pm	Still	12 Veto st.	John Sommer	John Sommer	Dwelling	Frame	Not ascertained	\$ 14 00	1050 00	1300 00
20	6 50pm	63	244 Alpine ave	John Vander Burg	Martin Vander Veen	Dwelling	Frame	Chimney burning out.	.....	.....	.....
20	6 04pm	513	W. river bank S. P. White	P. White	W. T. Powers	Basket factory	Frame	Not ascertained	90 00	400 00	1500 00
21	3 21pm	53	10 Pearl st.	D. Wiekering	Mrs. Sarah Edison	Dwelling	Frame	Gasoline stove	25 00	.....	1200 00
22	8 38pm	36	519 S. Ionia st.	W. F. Walker	D. L. Campau	Dwelling	Frame	Overflowing of oil stove	107 00	1450 00	11000 00
22	4 40am	Still	100 Monroe st.	M. H. Treusch & oth	Godfrey Estate.	Cigars, liquors	Brick	Not ascertained	275 00	7500 00	41300 00
24	7 41am	53	89 N. Front st.	Dr. Rogers	Wm. Harrison	Dwelling	Frame	Chimney burning out.	.....	.....	.....
24	9 41pm	723	Cor. Earle and L.S. & M. S. Ry	W. T. Bentley	W. T. Bentley	Cooper shop	Frame	Not ascertained	250 00	700 00	1050 00
25	9 21pm	315	39 Oakes st.	Curtis L. Wonch	W. T. Webster & oth	Livery barn	Frame	Not ascertained	1730 00	2800 00	7200 00
26	4 38am	Still	39 Oakes st	Curtis L. Wonch	W. T. Webster & oth	Livery barn	Debris	Re-kindling of former fire	.....	.....	.....
26	12 20am	134	105-107 Canal st	Chas. H. Smith & oth	Fuller Estate	Restaurant	Brick	Not ascertained	425 00	25575 00	43300 00
26	12 33pm	61	205 Quarry st	M. Seven	A. Youell	Dwelling	Frame	Oil stove explosion.	.....	1000 00	1300 00
27	6 30am	Still	247 E. Fulton st	Dr. Louis Barth	Dr. Louis Barth	Dwelling	Frame	Lightning striking elec- tric wire	125 00	14000 00	20000 00
28	12 33pm	361	.....	.....	.....	Lightning striking aux- iliary wire	.....	.....	.....	.....	.....
31	2 09pm	5	64 N. Market st.	Matt Slattery	Wm. Crawford	Saloon	Frame	Not ascertained	35 00	1300 00	1900 00

REPORT OF FIRES—Continued.

Date 1900	Time	No. Box	Location	Name of Occupant	Name of Owner	Occupied as	Class of Bldg.	Cause of Fire	Loss	Insurance	Value
June 1	3:58pm	723	12 River av.....	Thos Pomeroy.....	John Reynolds.....	Dwelling.....	Frame	Oil stove igniting cloth hanging.	\$ 475 00	\$ 1900 00	\$ 1550 00
3	9:58pm	434	592 E. Bridge st.	E. Lynch.....	L. D. Marvin.....	Dwelling.....	Frame	Gasoline stove explos'n	150 00	800 00	1400 00
4	9:30am	151	16 Henrietta st.	John Shanahan.....	John Shanahan.....	Dwelling.....	Frame	Sparks from burning brush pile.	5 00	1300 00	2500 00
8	4:51pm	151	41 Madison st.....	Mrs. Benj. Stoller.....	Samuel Smith.....	Dwelling.....	Frame	Gasoline-lighted match	20 00	1900 00	1800 00
10	1:30pm	21	Rear 61 Lagrave	A. Free and others.....	S. W. Baxter & oth.....	Barn.....	Frame	Not ascertained.....	135 00	1050 00	1600 00
12	1:56pm	Sull	12 King st.....	M. J. Ryan.....	D. Van Dulst.....	Dwelling.....	Frame	Sparks from locomotive	2 00	.....	400 00
13	5:15am	63	Rear 287 Alpine	A. Hoogeveen.....	O. Quirk.....	Dwelling.....	Frame	Oil stove explosion...	450 00	.....	800 00
14	6:45pm	315	6 Ellsworth ave.	Mrs. Mary Graves.....	Mrs. Patrick Shields.....	Dwelling.....	Frame	Gasoline stove.....	8 00	.....	1150 00
15	5:40pm	Sull	155 N. Division...	Mrs. Matilda Stiles.....	Woodstock Estate.....	Dwelling.....	Frame	Chimney burning out...	.....	.....	.....
15	5:48pm	Sull	155 N. Division...	Mrs. Matilda Stiles.....	Woodstock Estate.....	Dwelling.....	Frame	Chimney burning out...	.....	.....	.....
15	5:28pm	18	78 Brenner Ct....	Mrs. M. Radeke.....	White & Friant.....	Dwelling.....	Frame	Chimney burning out...	.....	.....	.....
16	10:54pm	10	Cor. Ionia and Pearl sts.	Y. M. C. A. Ass'n....	Y. M. C. Ass'n.....	Gymnas'm, etc.....	Brick	Defective electric light switch.	3890 00	43750 00	86150 00
16	12:35pm	314	Cor. Ionia and Bartlett sts.	Wernicke Co.....	D. Steketee and C. Dosker.....	Bookcase f'ty.....	Brick	Sparks igniting dust in blow pipe.	.....	35000 00	49000 00
22	11:06am	Sull	Cor. Straight and Sibley sts	Vacant lot.....	.....	.....	Rub-bish	Bonfire.....	.....	.....	.....
24	7:40pm	2	Cor. Louis and Campau sts.	H. M. Reynolds.....	H. M. Reynolds.....	Roof contr't's.....	Brick	Not ascertained.....	3879 00	19800 00	37000 00
24	2:57am	37	800 Griggs av....	Eliha Loeu.....	Eliha Loeu.....	Dwelling.....	Frame	Not ascertained.....	450 00	1700 00	2800 00
27	12:47am	424	Near Lafayette & D. & M. R. R.	G. R. Brick & Tile Co	G. R. Brick & Tile Co	Brick and Tile	wood	Sparks from locomotive	2 00	.....	30 00
27	7:21am	315	Cor. Ellsworth & Oakes,	Unoccupied.....	W. T. Webster.....	Barn.....	Frame	Not ascertained.....	.....	.....	1000 00

REPORT OF FIRES—Continued.

Date 1899	Time	No Box	Location	Name of Occupant	Name of Owner	Occupied as	Class of Bldg.	Cause of Fire	Loss	Insur- ance	Value
June 30	9 23pm	341	Near M. C. R. R. bet. 1st & 2d avs	Stiles Bros.....	Stiles Bros.....	Planting mill, etc.	Frame	Not ascertained	\$ 1480 00	\$ 1800 00	\$ 2300 00
30	5 10am	Still	12 Holland st....	H. J. Harvey & oth.	H. J. Harvey & oth.	Dwelling and barns.	Frame	Gasoline stove explos'n	1510 00	1300 00	2125 00
30	1 25pm	Still	Mill st., S. of E. Bridge.	.....	.....	.....	Rub- bish	Not ascertained.....	.....	.....	.....
30	12 53pm	252	Rear 388 Cass av	Jas. Dunbar	Jas. Dunbar	Barn	Frame	Sparks from bonfire ..	300 00	.....	550 00
July 1	2 54am	Still	Rear 194 Cass av	N. P. Hansen	N. P. Hansen	Knitting fact'y	Frame	Not ascertained	1300 00	1300 00	1550 00
1	2 57am	234	Rear 194 Cass av	N. P. Hansen	N. P. Hansen	Knitting fact'y	Frame	Same fire as still at 2:54 a. m.	.....	.....	.....
2	9 20am	Still	S. of Pearl st....	G. R. & I. R. Co.	G. R. & I. R. Co.	R. R. bridge.	Wood- iron	Spark from locomotive.	.....	.....	.....
4	7 53am	63	251 McReynolds.	Thos. Burger	Thos. Burger	Dwelling	Frame	Explos'n of sulphur and potash.	.....	800 00	900 00
4	12 20pm	343	502 S. Division	W. H. Wills	Jas. Simmons	Drug store	Brick	Explos'n of sulphur and potash.	5 00	5000 00	17500 00
5	6 48pm	312	108 Commerce st.	F. A. Marshal	Frank Leitellier....	Ho'r'd'g house	Brick	Defective gasoline stove	10 00	2500 00	4200 00
5	9 38pm	Still	Near M. C. R. R. bet. 1st & 2d avs	Stiles Bros.....	Stiles Bros.....	Lumber yard ..	Saw dust	Sparks from locomotive	.....	.....	.....
7	1 30pm	Still	145 Hilton st....	Henry Spilberg....	Adrian Torwing...	Dwelling	Frame	Oil stove too near wood- work.	8 00	800 00	1235 00
8	12 06am	Still	148 Cass av	John Cummerly	John Cummerly	Dwelling	Frame	Chimney burning out....	.....	.....	.....
11	8 56pm	Still	182 Cherry st....	Mrs. Thompson	F. Taylor	Dwelling	Frame	Not ascertained.....	15 00	2900 00	3500 00
11	4 00pm	Still	81 Fifth st	F. S. Strickland	Mrs. Hattie Provin	Dwelling	Frame	Gasoline stove explos'n	11 50	2000 00	3100 00
14	4 12pm	631	81 Fifth st	F. S. Strickland....	Mrs. Hattie Provin	Dwelling	Frame	Same fire as still at 4:59 p. m.	.....	.....	.....
19	11 46pm	7	101-103 Monroe..	Gardella Bros & oth.	Chas. Judd	Fruit store....	Brick	Short circuiting of elec tric light wire.	2 00	9650 00	12300 00
20	9 10pm	614	405 N. Front st.	David McGann.....	David McGann.....	Dwelling.....	Frame	Match and bedclothes...	20 00	1500 00	1700 00

REPORT OF FIRES—Continued.

Date 1899	Time	No Box	Location	Name of Occupant	Name of Owner	Occupied as	Class of Bldg.	Cause of Fire	Loss	Insurance	Value
July 23	5 57am	434	309 N. Diamond	Paul Stoway	Paul Stoway	Dwelling	Frame	Defective chimney	\$ 419 00	\$ 600 00	\$ 750 00
24	5 03pm	42	167 Trowbridge	C. Fiebig	C. Fiebig	Dwelling	Frame	Careless handling of matches	15 00	800 00	1000 00
25	6 44pm	712	153 166 Court st	G. R. Brass Co	G. R. Brass Co	Foundry	Brick	Sparks from furnace	655 00	75300 00	111300 00
25	1 20pm	431	43 Bissell st	Mrs. M. Krumrie	Mrs. Krumrie	Dwelling	Frame	Stovepipe disconnected	2 00	300 00	500 00
25	2 14pm	431	43 Bissell st	Mrs. M. Krumrie	Mrs. Krumrie	Dwelling	Frame	Not ascertained	12600 00	300 00	498 00
25	11 54am	314	R' 80 Grandville	Jacob Vanderleese	Jacob Vanderleese	Dwelling	Frame	Careless handling of gasoline	17 00	600 00	800 00
25	11 18am	353	McKendrick av., E. of Clyde Park	Jos Jennings & oth	Jos Jennings & oth	Dwelling	Frame	Oil stove explosion	1750 00	1050 00	2200 00
25	7 10am	8	151-153 Monroe	Chas A. Jandorf and others	Kendall Estate	Bakery	Brick	Stovepipe disconnected	595 00	1400 00	11800 00
31	8 53pm	27	17 S. Diamond	Unoccupied	A. M. Maris	Dwelling	Frame	Not ascertained	25 00	.....	250 00
Aug. 8	7 46pm	27	17 S. Diamond	Unoccupied	A. M. Maris	Dwelling	Frame	Incendiary	.....	.....	235 00
10	4 53pm	27	910 Rose st	Sanford Crocker	Sanford Crocker	Dwelling	Frame	Not ascertained	65 00	300 00	1700 00
11	8 59pm	Stull	37 Coldbrook st	H. Pettibone	P. Flinn	Br' smith shop	Frame	Hot iron igniting w'dw'k	.....	.....	325 00
12	12 50am	253	Cor. Crawford & Madison av.	Wm. Brulsiot	F. A. Chapman	Office & green-house	Frame	Not ascertained	5 00	1000 00	3900 00
12	10 22am	434	N' Cor. Benson & D & M R R	.....	.....	.....	.....	Sparks from locomotive	.....	.....	.....
12	3 02pm	Stull	Dwight bet E & Fulton & Lake	.....	.....	.....	.....	Not ascertained	.....	.....	.....
13	11 22am	Stull	35 36 S. Front st	G. R. Hand Screw Co	Converse Estate	Factory	Frame	Spontaneous combust'n	85 00	11500 00	16000 00
13	11 27am	51	13 55 S. Front st	G. R. Hand Screw Co	Converse Estate	Factory	Frame	Same fire as still at 11:22 a. m.	.....	.....	.....
14	11 26pm	312	61 Commerce st	O. S. Ball	J. T. Adams	Dwelling	Frame	Gasoline stove	180 00	1900 00	2750 00

REPORT OF FIRES—Continued.

Date 1899	Time	No Box	Location	Name of Occupant	Name of Owner	Occupied as	Class of Bldg.	Cause of Fire	Loss	Insurance	Value
Aug. 14 10 48am	362	778 S. Division ..	Mrs. Fassett.....	O. M. Walters	Dwelling	Frame	Smoke from stove.....	.....	.....	.....	.....
16 19 56pm	635	Near Lincoln st.	.....	.....	.....	Grass	Not ascertained .....	.....	.....	.....	.....
16 12 18am	543	13 N. Pine st....	Emil Scheneman ..	Emil Scheneman ..	Dwelling	Frame	Lighted match among clothing	40 00	1000 00	3300 00	
17 12 33pm	154	101 Quimby st..	Martin Hoffman ..	Martin Hoffman ..	Dwelling	Frame	Defective chimney	15 00	1050 00	1400 00	
17 4 57pm	314	68 Bartlett st..	Edward Shira	Lee Wright	Dwelling	Frame	Overflowing of gasoline stove	1 50	400 00	1100 00	
18 11 00am	Still	255 Cass av	John Brothers	John Brothers	Dwelling	Frame	Overflowing of gasoline stove	10 00	800 00	1300 00	
18 6 15pm	614	35 W. Leonard ..	Mrs. Haas & others ..	A. Stonehouse	Dwelling and drug	Frame	Gasoline stove	2 00	3200 00	4900 00	
18 11 02am	234	255 Cass av	John Brothers	John Brothers	Dwelling	Frame	Same fire as still at 11:00 ..	.....	.....	.....
19 11 02am	10	144 Lyon st.....	R. J. Young	Mrs. G. S. Johnson ..	Dwelling	Frame	Cardless filling gasoline stove	5 00	1200 00	1900 00	
19 6 42pm	7	.....	.....	.....	.....	.....	False alarm from Auxiliary, Herpolsheimer's ..	.....	.....	.....
20 1 58pm	362	N'r Cor. LaBelle & Home ave.	.....	.....	.....	Grass	Not ascertained .....	.....	.....	.....
21 1 40pm	Still	91 Watson st....	.....	.....	.....	.....	No cause for alarm .....	.....	.....	.....
22 2 30pm	Still	Athletic Park ..	.....	.....	.....	Grass	Workman burning grass ..	.....	.....	.....
22 4 35pm	Still	Rear 409 Lyon st	.....	.....	.....	.....	Ignited from bonfire. ...	.....	.....	.....
22 7 32am	312	123-129 S. Division	Winegar Furn. Co ..	Winegar Furn. Co ..	Store-bo'd'g ..	Brick	Spontaneous combust'n ..	218 00	40000 00	77000 00	
22 6 37pm	Still	123-129 S. Division	Winegar Furn. Co ..	Winegar Furn. Co ..	Store-bo'd'g ..	Brick	No cause for alarm.....	.....	.....	.....
23 4 20pm	7	.....	.....	.....	.....	.....	Alarm—Herpolsheimer's auxiliary ..	.....	.....	.....
23 1 25pm	Still	Cor. Market & Godfrey.	G. R. Felt Boot Co..	G. R. Felt Boot Co..	Factory	Brick	Sparks from lumping machine ..	30 00	100000 00	125000 00	

REPORT OF FIRES—Continued.

Date 1899	Time	No Box	Location	Name of Occupant	Name of Owner	Occupied as	Class of Bldg.	Cause of Fire	Loss	Insur- ance	Value
Aug. 23	1 22pm	323	Cor. Market & Godfrey.	G. R. Felt Boot Co.	G. R. Felt Boot Co.	Factory	Brick	Same fire as still at 1:23 p. m.	.....	.....	.....
24	1 15am	618	251 N. Front st.	Haney School F. Co.	Haney School F. Co.	Factory	Frame	Steampipes too near woodwork.	100 00	5750 00	12000 00
24	11 40am	35	20 Tenhaaf court	Paul Helm & others.	Perry Johnson & oth	Barn—dwelling.	Frame	Burning rubbish.	87 00	1300 00	2900 00
25	1 55pm	Still	Nr Robinson av & Hampden Rds	.....	.....	.....	Grass	Not ascertained.	.....	.....	.....
25	2 01pm	Still	Nr Robinson av & Hampden Rds	.....	.....	.....	Grass	Same fire as still as 1:55 p. m.	.....	.....	.....
25	1 13pm	294	Mills, bet. Mad- ison & College	.....	.....	.....	Grass	Not ascertained	.....	.....	.....
26	11 18am	67	North st., near G. R. & I.	Wm. Harrison	Wm. Harrison	Wagon works	Brick	Friction from cable ig- niting woodwork.	25 00	20000 00	26500 00
26	3 40pm	302	225 S. Division	Geo. H. Colt.	Geo. Weed	Grocery	Brick	Overflowing of gasoline stove.	.....	2000 00	3800 00
26	7 14pm	252	416 Cass av.	J. S. Borman	Thos. Hanninga	Dwelling	Frame	Lighted match—lace curtain.	25 00	800 00	1700 00
27	6 16pm	23	16 Wenham av.	D. Van Dam	Mrs. Beecher	Dwelling	Frame	Oil stove.	110 00	400 00	1200 00
28	6 30pm	723	64 Hogadome av.	John Zimmer	John Zimmer	Dwelling	Frame	Alarm—generating gas- oline stove.	.....	.....	.....
28	3 12am	Still	213 Sinclair st.	John Veen	C. W. Colt	Barn.	Frame	Not ascertained	95 00	.....	170 00
29	11 30am	52	58 Second st	A. O. Hasse	A. O. Hasse	Grocery	Frame	Not ascertained	992 00	1400 00	3000 00
29	11 25am	Still	Rear 519 Ottawa	Goossen Bros.	Goossen Bros.	Barn.	Frame	Not ascertained	100 00	90 00	100 00
29	11 30am	142	Rear 519 Ottawa	Goossen Bros.	Goossen Bros.	Barn.	Frame	Not ascertained	.....	.....	.....
30	12 14pm	Still	Gr-dvile & 2d avs	.....	Goossen Bros.	Barn	Frame	Same fire as still at 11:25 a. m.	.....	.....	.....
30	9 47am	Still	Near Union and Crescent av.	.....	.....	.....	Grass	Not ascertained	.....	.....	.....
Sept. 3	1 35pm	361	Nr. Hilton & 6th	Unoccupied	Wm. R. Shelby	Factory	Frame	Not ascertained	10 00	2000 00	3500 00

REPORT OF FIRES—Continued.

Date 1899	Time	No Box	Location	Name of Occupant	Name of Owner	Occupied as	Class of Bldg.	Cause of Fire	Loss	Insur- ance	Value
Sept. 4	11 05pm	Still	Island, nr Cre- matory.	.....	.....	.....	Rub- bish.	Not ascertained	.....	.....	.....
4	7 54pm	Still	Rear 125 Wash- ington.	.....	Geo. P. Wany.	.....	Tree	Ignited from candle	.....	.....	.....
6	6 47am	Still	Fair st	.....	.....	.....	.....	Alarm—smoke from st'm roller.	.....	.....	.....
6	7 05pm	Still	100 Monroe st	B. Allen and others.	Tracey Estate	Restaurant	Brick	Chimney burning out.	.....	.....	.....
11	8 10pm	Still	806 S. East st	Parents & Baker	Jas. Campbell	Hay pressers	Frame	Not ascertained	\$ 275 00	.....	\$ 275 00
11	9 10pm	Still	Grandville and Wealthy.	Chris Nagel	Henry Nagel	Smokehouse	Brick	Meat falling in fire	13 00	75 00	125 00
12	1 24pm	Still	Straight & Sibley	.....	.....	.....	Brush	Set fire by workmen	.....	.....	.....
12	12 20pm	314	41 Ney st	Jelle Kolk & others.	John Hoekema	Dwelling	Frame	Sparks from chimney	15 00	500 00	1250 00
12	12 12pm	Still	86 Fremont st	T. Caabill	Geo. Kalmback	Dwelling	Frame	Chimney burning out	.....	.....	.....
14	7 50pm	Still	29 Second av	Geo. Kincke	Geo. Elder	Barn	Frame	Sparks from locomotive	3 00	.....	15 00
15	8 24pm	Still	97 N. Ottawa st.	Dr. Graves & others.	H. F. Ledyard	Office	Brick	Supposed cigar stub ig- nited against	.....	.....	.....
15	1 25pm	Still	Rr 108 Wealthy	.....	.....	.....	Rub- bish	Not ascertained	.....	.....	.....
15	11 20pm	514	W. Bridge and Broadway	Geo. Egler	John Klys	Livery barn	Frame	Supposed sparks from chimney.	599 00	1300 00	2500 00
16	8 27pm	Still	1076 Fifth av.	Hasmin Wielama	.....	Dwelling	Frame	Not ascertained	30 00	600 00	900 00
16	3 25pm	723	61 Hogadone av.	.....	.....	.....	.....	No cause for alarm	.....	.....	.....
16	1 11pm	Still	Straight & Sibley	.....	.....	.....	Grass	Ignited from bonfire	.....	.....	.....
19	5 44pm	161	57 Queen st	Wm. Redhead	John Dresender	Dwelling	Frame	Not ascertained	2 00	.....	1100 00
21	11 25pm	Still	Oass & Wenham	Vacant lot	.....	.....	Straw Shaw's dren.	Set fire by school chil- dren.	.....	.....	.....

REPORT OF FIRES - Continued.

Date 1899	Time	No Box	Location	Name of Occupant	Name of Owner	Occupied as	Class of Bldg.	Cause of Fire	Loss	Insur- ance	Value
Sept. 25	9 30pm	Still	Cor. 5th & Hilton	Unoccupied.....	W. R. Shelby.....	Factory..	Frame	Supposed incendiary..	.....	\$ 2000 00	\$ 3500 00
26	5 50pm	Still	128 N. Division..	Mrs. E. D. Esler....	Mrs. E. D. Esler....	Dwelling	Brick	Chimney burning out..	.....	.....	.....
27	12 04pm	351	Cor. 5th & Hilton	Unoccupied	W. R. Shelby.....	Factory and dwelling.....	Frame	Supposed incendiary...\$	3531 00	6150 00	9500 00
27	12 24pm	341	42 Miller st.....	E. Grady	J. C. Sherras	Dwelling.....	Frame	Flying brands from fire at 5th and Hilton..	10 00	500 00	1500 00
28	12 11pm	Still	38 First st....	M. Hassen	M. Hassen	Dwelling	Frame	Chimney burning out..	.....	.....	.....
29	12 04am	451	231 North av	H. W. Stevens.....	H. W. Stevens.....	.....	Frame	Not ascertained	125 00	.....	150 00
Oct. 1	8 03am	Still	157 Monroe st.	Jay F. Ferris	Kendall Estate	N. Y. Tea Co..	Brick	Rags stuffed in chimney hole.	.....	.....	.....
3	9 08pm	142	550 Ottawa st	Fred Raepple	Edward Barnard	Saloon—dwell- ing.	Frame	Lamp explosion	4 00	1600 00	3500 00
3	1 05pm	514	60 W. Bridge st.	.....	.....	.....	Tar	Igniting of boiling tar .....	.....	.....	.....
3	11 45pm	284	Rear 337 Jeff. av .....	.....	Leonard Sleight .....	.....	Kettle Rub- bish	Set by owner .....	.....	.....	.....
3	5 13pm	284	MILL. nr Madis'n	.....	.....	.....	Rub- bish	Set by owner .....	.....	.....	.....
3	7 20am	Still	Ottawa & Lyon.	Frank W. Hine & oth	Norris Estate	Office	Brick	Lighted match and leak- ing gas pipe.	.....	.....	.....
5	6 00pm	459	50 Mechanic st..	.....	.....	.....	Bonfire	Set by boys .....	.....	.....	.....
8	5 07pm	53	63 Seward st	Mrs. Louise Peetle.	Mrs. Louise Peetle.	Woodshed.	Frame	Sparks falling from stove on carpet.	4 00	.....	30 00
10	10 21am	353	312 Clyde P'r av ..	Patrick Kearas.	Patrick Kearas. ....	.....	Frame	Not ascertained.....	75 00	.....	75 00
14	5 58am	Still	R'r 335 S. Ionia.	M. B. & W. Paper Co	Michigan Trust Co. .	Barn.....	Frame	Not ascertained	1 00	.....	500 00
15	12 01pm	Still	61 Elighth st.....	Henry Winehouse..	Wm. Harrison.....	Dwelling	Frame	Chimney burning out..	.....	.....	.....
16	12 40pm	624	167 Broadway...	Walter Angel & oth.	Frank Eckert.	Dwelling	Brick	Chimney burning out..	.....	.....	.....

REPORT OF FIRES—Continued.

Date 1899	Time	No Box	Location	Name of Occupant	Name of Owner	Occupied as	Class of Bldg.	Cause of Fire	Loss	Insurance	Value
Oct. 16	10 53pm	Still	121 California st.	Fred Megley	Fred Megley	Outhouse	Frame	Not ascertained	\$ 5 00		\$ 15 00
17	7 20am	621	...	...	...	...	...	False alarm.	...	...	...
17	10 56am	Still	124 Lagrave st.	G. E. De Boer	G. E. De Boer	Dwelling	Frame	Chimney burning out.	...	...	...
18	8 33am	Still	108 Goodrich st	Thos. Sweeney	Thos. Sweeney	Dwelling	Frame	Chimney burning out.	...	...	...
18	10 07pm	5	53 55 N. Market	G. R. Paint Trimming Co.	D. A. Blodgett	Factory	Frame	Turpentine boiling over	3 00	4600 00	13800 00
19	6 25pm	Still	15-17 Jeffers'n av	Unoccupied	Charles Tufts	...	Brick	Lime slacking in bbl. igniting wood.	...	...	22000 00
20	2 52am	23	163 Cass av	Peter Crowley	Peter Crowley	Barn	Frame	Not ascertained	36 00	1200 00	1350 00
21	11 31am	Still	77 Alabama st.	Schlitz Brewing Co.	Schlitz Brewing Co.	Bottling Wks	Brick	Overheated stovepipe	...	...	...
21	3 52pm	Still	222 Eleventh av.	Unoccupied	Mrs. Sprandon	Barn	Frame	Not ascertained	5 00	...	75 00
21	1 07pm	Still	34 E. Bridge st.	John Sweets & oth	J. C. Moore	Tailor shop	Frame	Plumbers breaking gas pipe.	27 50	550 00	860 00
22	3 46am	Still	Rr 560 E. Bridge	John Jubaraki	John Jubaraki	Barn	...	Not ascertained	150 00	50 00	175 00
22	5 15pm	Still	E. Fulton and Ottawa sts	S. P. Bennett	S. P. Bennett	Office	Frame	Not ascertained	200 72	400 00	400 00
24	4 05am	134	113 Canal st.	John Raugh	Louis Sandler	Saloon	Brick	Cigar stub thrown in sawdust.	75 00	7500 00	11000 00
24	2 06pm	712	200-319 S Front.	Fred'k C. Miller	Fred'k C. Miller	Box factory	Frame	Sparks from fire box	17 92	9800 00	17500 00
25	7 52am	513	117 119 S. Front.	Hot Blast Feather Co.	Converse Estate	Factory	Brick	Supposed spark from picking machine.	627 90	5000 00	15000 00
26	4 04pm	5	81-83 Campan st.	G. R. Paper Box Co	Cornelius Clark and others.	Factory	Brick	Supposed cigar stub in papers under sidewalk	423 25	22000 00	34000 00
26	4 06pm	Still	81-83 Campan st.	G. R. Paper Box Co	Cornelius Clark and others.	Factory	Brick	Same fire as box 5 at 5:04 p. m.	...	...	...
29	6 19pm	43	21 Brainerd st.	Robt. Teale	Mrs Ida Cartwright	Dwelling	Frame	Chimney burning out.	...	...	...

REPORT OF FIRES—Continued.

Date 1899	Time	No. Box	Location	Name of Occupant	Name of Owner	Occupied as	Class of Bldg.	Cause of Fire	Loss	Insurance	Value
Oct. 31	6 20pm	Still	Court st. and Shawmut av.	Aldine Mfg. Co.	Aldine Mfg. Co.	Factory	Frame	Short-circuiting of service switch.	.....	\$ 5300 00	\$ 1997 00
31	11 32am	14	405 N. Ottawa st.	Philip Crope & oth.	Ringleberg Estate.	Dwelling	Frame	Defective chimney	\$ 100 00	250 00	1000 00
Nov. 1	5 05pm	Still	345 Eleventh st.	Casa Vanderwall	Geo. Veen.	Dwelling	Frame	Chimney burning out.	.....	.....	.....
1	6 03pm	Still	Rr 37 S. Division	Sproul & McGurkin.	Sproul & McGurkin.	Gasoline tank.	Gasoline	Gasoline—drawing from one tank into another.	.....	.....	.....
3	7 35am	Still	388 N. Ottawa st.	Mrs. Parish	B. E. Pierce	Dwelling	Frame	Chimney burning out.	.....	.....	.....
4	2 59am	714	Cor. S. Front & Earle	G. R. Wheelbarrow Co.	G. R. Wheelbarrow Co.	Dry kiln.	Brick	Not ascertained	5 00	23000 00	45500 00
5	11 20am	Still	35 Michigan st.	John Fabiszak	John Fabiszak	Dwelling	Frame	Chimney burning out.	.....	.....	.....
8	6 50pm	Still	305 S. Ionia st.	Geo. Rodgers	Woodcock Estate	Dwelling	Frame	Chimney burning out.	.....	.....	.....
9	6 43am	Still	246 248 E. Fulton	.....	C. W. Tufts.	Wellington fits	Brick	False alarm.	.....	.....	.....
12	8 38am	Still	155 7 Central av.	A. Galloway & oth.	D. E. Uhl.	Tenement blk.	Frame	Gasoline stove too near wall.	10 00	2400 00	4500 00
13	8 40am	343	155 7 Central av.	A. Galloway & oth.	D. E. Uhl.	Tenement blk.	Frame	Same fire as still at 8:38 a. m.	.....	.....	.....
13	8 04pm	712	Cor. Front & G. R. & I. R. R.	G. R. & I. R. R.	G. R. & I. R. R.	Watch house.	Frame	Overheated stove	15 00	.....	80 00
14	7 04pm	325	43 Second av.	Unoccupied.	C. & W. M. R'y Co.	.....	Frame	Incendiary	1 00	400 00	400 00
14	7 16am	234	63 Pleasant st.	Mrs. Worthy	Mrs. Worthy	Dwelling	Frame	Chimney burning out.	.....	.....	.....
14	2 20am	Still	205 N. Ottawa st.	Dwight Skinner and others.	Mrs. Calvin Ives	Tenement blk.	Brick	Overheated chimney	26 00	2000 00	8800 00
14	4 00am	53	.....	.....	.....	.....	.....	No cause for alarm.	.....	.....	.....
16	10 03pm	Still	182 N. Front st.	C. O. & A. D. Porter	C. O. & A. D. Porter	Machine shop.	Frame	Lighted match—leaking gas pipe.	.....	.....	.....
18	5 25pm	67	8 Harrisonville.	Wm. Marshall	Wm. Harrison	Dwelling	Frame	Lamp explosion.	5 00	600 00	800 00

REPORT OF FIRES—Continued.

Date 1899	Time	No Box	Location	Name of Occupant	Name of Owner	Occupied as	Class of Bldg.	Cause of Fire	Loss	Insur- ance	Value
Nov. 18	1 18pm	532	235 W. Bridge st.	Michael Thorpe	August Cuenot	Dwelling	Frame	Not ascertained	\$ 217 00	\$ 500 00	\$ 1000 00
19	2 06pm	13	291 N. Ottawa st.	Henry Lichtner and others	Leiteit Estate	Tenement blk.	Brick	Chimney burning out	.....	.....	.....
21	5 45am	Still	R'r 230 Wealthy	Willis King	Willis King	Barn	Frame	Not ascertained	100 00	.....	275 00
22	5 55pm	Still	237 Broadway	Benj. DeBoer	B. Leavenhouse	Dwelling	Frame	Chimney burning out	.....	.....	.....
23	7 51pm	Still	Canal & E. Bridge	H. O. Meienbacher	Robt. Rasch	Clarendon hotel	Brick	Chimney burning out	.....	.....	.....
24	12 01pm	Still	64 Fourth st.	Chas. Smith	Chas. Smith	Dwelling	Frame	Chimney burning out	.....	.....	.....
24	7 51pm	28	658 Wealthy av.	Louis Katz	Louis Katz	Meat market	Brick-Frame	Crowding matches in dr	50 00	6000 00	7500 00
24	9 23am	51	244 Fourth st.	Mathew Nooest	Mathew Nooest	Dwelling	Frame	Chimney burning out	.....	.....	.....
24	12 23pm	2	Pearl st.	D. L. Thompson and others	Wm. T. Powers	Jewelry store	Brick	Careless handling of matches	128 37	32550 00	53150 00
25	8 33am	Still	131 Powell st.	A. D. Chipman	A. D. Chipman	Dwelling	Frame	Sparks from chimney—defective connection	10 00	1600 00	2500 00
27	4 12am	Still	92 Canal st.	Frank Harnden and others	John B. Martin	Restaurant	Brick	Defective chimney	785 00	4700 00	7600 00
27	4 19am	131	92 Canal st.	Frank Harnden and others	John B. Martin	Restaurant	Brick	Same fire as still at 4:12 a. m.	.....	.....	.....
27	6 53am	Still	E. Bridge st.	Samuel Lowenstein	Fuller Estate	Ash house	Brick	Hot ashes ignit'g pap'rs	.....	.....	.....
28	4 10pm	451	55 Langdon st.	L. Eldridge	O. E. Belden	Barn	Frame	Not ascertained	10 00	.....	155 00
29	6 59pm	723	106 Butterworth	Nick Millman	Sam'l Hildborn	Dwelling	Frame	Lamp explosion	75 00	800 00	1100 00
Dec. 1	1 55pm	273	384 Logan st.	Cornelius Nieuwenhuis	C. Nieuwenhuis	Dwelling	Frame	Overflowing of gasoline stove	15 00	600 00	1500 00
5	8 24am	313	751 Fifth av.	J. B. Culver	Peninsular Trust Co	Dwelling	Frame	Chimney burning out	.....	.....	.....
6	5 36pm	253	284 Highland av	Mrs. Church	A. B. Cook	Dwelling	Frame	Overflow'g gasoline stove	.....	800 00	2200 00

REPORT OF FIRES—Continued.

Date 1899	Time	No. Box	Location	Name of Occupant	Name of Owner	Occupied as	Class of Bldg.	Cause of Fire	Loss	Insur- ance	Value
Dec. 8	2 39am	Still	Oakland av	G. R. Gas Co.....	G. R. Gas Co.	Oil house.....	Frame	Supposed incendiary....	65 00	.....	135 00
8	2 40am	314	Oakland av	G. R. Gas Co.....	G. R. Gas Co.	Oil house.....	Frame	Same fire as still at 2:39 a. m.	.....	.....	.....
8	1 42am	51	72-74 Court st....	Wolverine Spice Co	Wolverine Spice Co.	Factory	Frame	Overheated flue .....	.....	.....	.....
8	12 56am	Still	19 21 S. Division	M. B. & W. Paper Co	McMullen Estate...	Store	Brick	Chimney burning out....	.....	.....	.....
8	2 33pm	2	Monroe & Pearl	L. Higer and others.	McDonald Estate...	Clothing store.	Brick	Defective workmanship in running electric w r	.....	.....	.....
12	8 00pm	613	243 Scribner st..	C. B. Clark	O. B. Clark	Dwelling	Frame	Defective chimney....	77 00	3000 00	5500 00
12	7 33am	Still	76 State st	Wm. Berkey	Wm. Berkey	Dwelling	Frame	Chimney burning out....	.....	.....	.....
14	4 45am	Still	5 Rumsey st.....	Albert Stryker & oth	John Stryker	Dwelling	Frame	Not ascertained	315 00	650 00	1250 00
14	4 52am	351	5 Rumsey st	Albert Stryker & oth	John Stryker	Dwelling	Frame	Same fire as still at 4:45 a. m.	.....	.....	.....
15	11 30pm	Still	22 Ransom st....	W. Wolshley	Scribner Estate ...	Dwelling	Frame	Chimney burning out....	.....	.....	.....
16	7 18a.m	424	552 N. Lafayette	Andrew Stoey	Andrew Stoey	Dwelling	Frame	Chimney burning out....	.....	.....	.....
16	12 11pm	Still	78 Brenner Ct....	Mrs. Radica	Stewart White	Dwelling	Frame	Not ascertained	20 00	.....	400 00
16	12 14pm	18	78 Brenner Ct....	Mrs. Radica	Stewart White	Dwelling	Frame	Same fire as still at 12:11 p. m.	.....	.....	.....
16	11 52pm	614	563 Scribner st..	C. Vanhalden	A. Giddings.	Dwelling	Frame	Chimney burning out ..	.....	.....	.....
16	9 45am	Still	29-31 Monroe st	Collat Bros.....	Frank Leonard	Clothing store.	Brick	Steam from exhaust pipe.	.....	.....	.....
18	8 40am	5	39 41 N. Market.	W. A. Berkey	Harvey J. Hollister	Furn. factory.	Brick	Friction from sand— dust in blow pipe.	3 50	100000 00	130000 00
19	10 09pm	14	323 Kent st	E. C. Spaulding. ...	E. C. Spaulding	Glass bending works	Wood- Iron	Defective oven	3 50	.....	4280 00
20	5 09am	623	123 Muskegon ..	C. Deering	McCormick	Dwelling	Frame	Defective flue	542 00	1000 00	1300 00

REPORT OF FIRES—Continued.

Date 1899	Time	No Box	Location	Name of Occupant	Name of Owner	Occupied as	Class of Bldg.	Cause of Fire	Loss	Insur- ance	Value
Dec. 20	9 04pm	31	.....	.....	.....	.....	.....	False alarm.....	.....	.....	.....
20	8 45pm	312	.....	.....	.....	.....	.....	False alarm. . . . .	.....	.....	.....
20	8 30pm	5	.....	.....	.....	.....	.....	False alarm. . . . .	.....	.....	.....
22	7 13am	Still	203 Watson st.	Michael Tennis.	Mrs. Drew	Dwelling.....	Frame	Overflo'g gasoline stove.....	\$ 1000 00	\$ 1800 00	1800 00
22	9 41pm	343	676 Fifth av	John Taylor.....	Elizabeth Mower..	Dwelling.. . .	Frame	Electric wire in contact \$ with eve-trough.	2 00	1000 00	1800 00
22	8 32pm	Still	122-126 Monroe.	Morse Dry Goods Co	Gilbert Estate.....	Store	Brick	Chimney burning out.....	.....	.....	.....
26	3 58pm	6	50 N. Market st.	John O'Donnell. . .	Thos. O'Donnell . .	Saloon.....	Frame	Not ascertained	10 00	3000 00	4800 00
26	12 37pm	14	Rear 331 Canal.	I. W. Thomas & oth.	Mrs. E. C. Konkle . .	Woodhouse . .	Frame	Hot ashes near woodw'k	.....	.....	200 00
27	2 46am	Still	Ottawa & Louis	Olney & Judson Gro- cer Co.	Gilbert Estate.....	Store	Brick	Overheated flue.....	5 00	77500 00	106000 00
27	2 50pm	Still	321 S. East st . .	Wm. Snowden.....	Benj. Top.	Dwelling.....	Frame	Chimney burning out.....	.....	.....	.....
28	6 10am	67	1 Harrisonville.	J. Dudley.	Wm. Harrison	Dwelling.....	Frame	Chimney burning out . . .	.....	.....	.....
28	7 21am	214	43 S. Lafayette.	W. P. Canaan.....	E. F. Sweet.	Dwelling.. . .	Frame	Defective chimney.....	10 00	3500 00	3100 00
29	12 12pm	234	345 Jefferson av.	H. B. Grady.	John Johnson	Dwelling.....	Frame	Chimney burning out.....	.....	.....	.....
31	1 30am	Still	Outside city limits	.....	.....	.....	.....	Outside of city . . . . .	.....	.....	.....
31	1 23am	253	Outside city limits	.....	.....	.....	.....	Same fire as still at 1:30 a. m.	.....	.....	.....
1900 Jan. 1	1 33am	Still	15 Hilton st. . .	Minnie Schlice . . .	Mary Payne	Dwelling.....	Frame	Defective chimney.....	296 00	350 00	1000 00
3	11 28pm	271	921-923 Wealthy.	Joseph Paaker.....	A. O. Crozier	Grocery	Frame	Not ascertained	2380 00	2300 00	2800 00
3	11 37pm	292	931-933 Wealthy	Joseph Paaker	A. O. Crozier	Grocery	Frame	Same as 271 at 11:28 pm.	.....	.....	.....

REPORT OF FIRES—Continued.

Date (Mon)	Time	No Box	Location	Name of Occupant	Name of Owner	Occupied as	Class of Bldg.	Cause of Fire	Loss	Insur ance	Value
Jan. 3	5 27pm	7	Ottawa and Pountain	Penitular Club....	Penitular Club....	Club rooms....	Brick	Chimney burning out....	.....	.....	.....
4	2 30pm	512	28 W. Bridge st.	Mrs. M. Huston and others.	Zinzer Estate....	Tenement....	Brick	Spontaneous combust'n \$	160 00	\$ 10700 00	\$ 12500 00
5	4 45pm	671	Nr D. & M. June	Gunn Furn. Co....	Gunn Furn. Co....	Factory — dry kiln.	Brick	Not ascertained....	9678 04	75000 00	131000 00
6	12 45am	Still	E. Bridge and Ottawa	Unoccupied....	G. R. Brewing Co....	Dwelling....	Brick	Hot ashes in bbl. of rub- bish.	.....	.....	.....
7	8 08pm	37	979 Elm av	Chas. Williams....	Pierce Kintella....	Dwelling....	Frame	Not ascertained....	100 00	800 00	1900 00
7	10 20am	14	413 N. Ionis	John Grillmeier....	L. K. Bishop....	Dwelling....	Frame	Chimney burning out....	.....	.....	.....
8	5 30am	Still	Monroe & Ionis	J. Boyd Pantlind....	J. Boyd Pantlind....	Hotel....	Brick	Spontaneous combust'n	2800 00	110000 00	160000 00
8	5 32am	7	Monroe & Ionis	J. Boyd Pantlind....	J. Boyd Pantlind....	Hotel....	Brick	Same fire as still at 8:30 a. m.	.....	.....	.....
8	2 55pm	Still	17 Canal st....	Wm. Kinney....	6th National Bank....	Auction store.	Brick	Defective furnace....	2 00	13000 00	18800 00
10	1 50pm	Still	63 Pearl st....	Wm. Chinnick....	Wm. T. Powers....	Saloon....	Brick	Electric wires short-cir- cuted.	.....	.....	.....
10	5 30am	Still	Ionis & Pearl	Y. M. C. Association	Y. M. C. Ass'n....	Reading rooms etc.	Brick	Chimney burning out....	.....	.....	.....
11	4 05pm	Still	24 Kent st....	Horace Abbott....	Robinson Estate....	Dwelling....	Frame	Sparks from stove....	.....	.....	125 00
12	10 52am	37	944 Elm av....	John Johnson....	John Mathews....	Dwelling....	Frame	Not ascertained....	100 00	1100 00	1500 00
13	10 53am	Still	Front & Fourth	Fox Machine Co....	Fox Machine Co....	Machine w'ks.	Frame	Steam escaping from burst pipe.	.....	.....	.....
13	1 54pm	Still	32 W. Bridge st.	J. J. Meyers....	Mrs. A. Cool....	Drug store....	Brick	Chimney burning out....	.....	.....	.....
15	7 56pm	Still	41 Canal st....	R. D. Carstens and others.	Wm. Sears....	Jewelry store.	Brick	Electric wire short-cir- cuted.	.....	.....	.....
16	7 14pm	Still	Division & Island	.....	.....	.....	.....	Electric and telephone wires crossed.	.....	.....	.....
20	9 40pm	365	733 Hall st....	Peter Hamburger....	Mose McManu....	Dwelling....	Frame	Not ascertained....	5 00	600 00	1500 00

REPORT OF FIRES—Continued.

Date 1900	Time	No Box	Location	Name of Occupant	Name of Owner	Occupied as	Class of Bldg.	Cause of Fire	Loss	Insr. ance	Value
Jan. 20	9 36am	Still	133 Grandville ..	Standard Cabinet Co and others.	Jacob Reelman.....	Factory — dry kiln.	Frame	Spontaneous combust'm	\$ 478 30	\$ 2800 00	\$ 7500 00
20	9 37am	325	123 Grandville...	Standard Cabinet Co and others.	Jacob Reelman.....	Factory — dry kiln.	Frame	Same fire as still at 9:36 a. m.	.....	.....	.....
22	4 06pm	15	Canal & Quimby ..	I. L. Quimby.....	I. L. Quimby.....	Factory.....	Frame	Not ascertained .....	.....	17800 00	20000 00
23	8 56pm	35	476 Caulfield av.	Garret H. Voat.....	Garret H. Voat	Dwelling.....	Frame	Chimney burning out...	.....	.....	.....
24	11 45am	Still	140 N. Prospect.	Mrs F. Locke & oth	Peter Reynders	Dwelling.....	Frame	Chimney burning out..	.....	.....	.....
25	4 25pm	431	33 Bissell st.....	Mrs. Wm. Salewski.	Mrs. Salewski	Dwelling.....	Frame	Chimney burning out..	.....	.....	.....
25	11 27am	Still	620 S. Division.	Alice Ruskey.....	P. A. Bartlett.....	Dwelling.....	Frame	Chimney burning out...	.....	.....	.....
27	9 55am	Still	231 Jefferson st.	David Moore.....	David Moore.....	Dwelling.....	Frame	Stove pipe too near par-tition.	650 00	1000 00	2600 00
27	8 13am	Still	30 Church st	Edward Hall.....	Jacob Reelman.....	Dwelling.....	Frame	Chimney burning out...	.....	.....	.....
28	8 30pm	123	26 E. Bridge st.	Julius Kleinwachter	J. Kleinwachter	Saloon.....	Brick	Chimney burning out...	.....	.....	.....
30	10 10am	Still	248-250 E. Fulton	.....	C. W. Tufts	Wellington fls	Brick	False alarm .....	.....	.....	.....
30	9 30am	Still	87 Fifth st	Mrs. W. Fuller	Mrs. O. H. Provin	Dwelling.....	Frame	Chimney burning out...	.....	.....	.....
31	3 13pm	134	166 Canal st.....	Royal Furniture Co.	Royal Furn. Co.	Holler room.	Brick	Escaping steam — flue bursting.	.....	.....	.....
31	6 41pm	72	97 Jefferson av. .	Turner Society	Turner Society	Hall	Frame	Overheated stove.....	2425 00	4000 00	8750 00
Feb. 1	6 07pm	632	90 Jennette st. .	Ralph Nedema	Ralph Nedema	Barn.....	Frame	Not ascertained	40 00	25 00	40 00
1 12 09pm		25	1060 Fifth av ..	Herb't Vanderpere	Herb't Vanderpere	Dwelling.....	Frame	Not ascertained	30 00	800 00	1400 00
1 11 17am		Still	359 Third st.....	Mrs. Wm. Echter-nach.	Mrs. Wm. Echter-nach.	Dwelling.....	Frame	Not ascertained	1500 00	3000 00	5600 00
1 12 09pm		54	359 Third st.....	Mrs. Wm. Echter-nach.	Mrs. Wm. Echter-nach.	Dwelling.....	Frame	Same fire as still at 11:17 a. m.	.....	.....	.....

REPORT OF FIRES—Continued.

Date 1940	Time	No Box	Location	Name of Occupant	Name of Owner	Occupied as	Class of Bldg.	Cause of Fire	Loss	Insurance	Value
Feb. 1	6 58pm	8	122 126 Monroe.	Morse Dry Goods Co	Gilbert Estate.....	Store.....	Brick	Chimney burning out....	.....	.....	.....
3	2 00am	Still	55 Stocking st...	C. B. Cook.....	L. McCurdy.....	Dwelling.....	Frame	Het ashes in baskets....	\$ 20 00	\$ 300 00	\$ 1000 00
3	8 04am	513	126 S. Front st.	Jas. Winegarden ..	W. T. Powers.....	Grocery store	Brick	Lighted match -- gaso- line tank.....	10 00	2100 00	3500 00
4	12 06pm	282	298 Central av...	Unoccupied.....	Stephen Peacock...	Dwelling....	Frame	Oil stove.....	25 00	500 00	800 00
5	5 20pm	Still	62 Grandville av	J. H. Spencer.....	Michael Ring Est...	Dwelling.....	Frame	Chimney burning out....	.....	.....	.....
8	1 47pm	Still	545 Grandville av	Malachi Kelley. ...	Malachi Kelley.....	Dwelling.	Frame	Chimney burning out....	.....	.....	.....
9	4 13pm	Still	94 First st.....	Geo. Williams & oth	Geo. Powell.....	Dwelling.	Frame	Gasoline stove.....	128 00	1000 00	2000 00
9	4 13pm	341	94 First st.	Geo. Williams & oth	Geo. Powell.....	Dwelling.	Frame	Same fire as still at 4:13 p. m.	.....	.....	.....
10	5 49am	Still	355 S. Division ..	M. E. Bliven.....	M. E. Bliven.....	Dwelling.....	Frame	Chimney burning out....	.....	.....	.....
13	10 15am	15	Canal & Quimby	I. L. Quimby.....	Quimby Estate.....	Sawdust, shed and factory.	Frame	Not ascertained.....	315 00	178 00	20000 00
13	7 25am	123	212 N. Division.	Harry Wetzell & oth	Mrs. Mary R. Wood	Dwelling.....	Frame	Chimney burning out....	.....	.....	.....
13	2 40pm	52	50 N. Front st...	.....	.....	.....	.....	No cause for alarm.....	.....	.....	.....
14	3 37pm	Still	70 S. Ionia st...	Beach & Booth	Louis McCrack.....	Hotel.....	Frame	Defective chimney.....	1000 00	3800 00	6500 00
14	2 02pm	Still	70 S. Ionia st...	Beach & Booth.....	Louis McCrack.....	Hotel.....	Frame	Chimney burning out....	.....	.....	.....
14	12 48pm	Still	70 S. Ionia st...	Beach & Booth.....	Louis McCrack.....	Hotel.....	Frame	Chimney burning out....	.....	.....	.....
14	3 42pm	316	70 S. Ionia st...	Beach & Booth	Louis McCrack.....	Hotel.....	Frame	Same as still at 3:37 p.m.	.....	.....	.....
15	7 12am	Still	32 W. Fulton st	Mrs. Hannah Duffy	Mrs. Hannah Duffy	Dwelling.....	Brick	Chimney burning out....	.....	.....	.....
16	8 45pm	Still	115-117 Monroe.	F. J. Dettenthaler..	A. D. Rathbone....	Fish market.	Brick	No cause alarm (steam)	.....	.....	.....

REPORT OF FIRES - Continued.

Date 1900	Time	No Box	Location	Name of Occupant	Name of Owner	Occupied as	Class of Bldg.	Cause of Fire	Loss	Insur- ance	Value
Feb. 16	11 46am	54	325 Fourth st...	M. Renwick...	M. Renwick...	Dwelling.....	Frame	Chimney burning out...	.....	.....	.....
20	5 51am	Still	26 Woodlawn av	Edward Stahl	Edward Stahl...	Dwelling.....	Frame	Explos'n of kerosene oil \$	3 00	.....	\$ 1400 00
22	4 40am	365	724 Hall st.....	G. J. Brower..	G. J. Brower ..	Grocery store.	Frame	Elec. light wires crossed telephone wires.	868 00	\$ 1400 00	2900 00
22	8 23pm	Still	395 S. Ionia st..	Geo. E Rogers..	Mich. Trust Co....	Dwelling.....	Frame	Smoke from furnace...	.....	.....	.....
22	10 43am	Still	509 Cherry st....	G. G. Sargent.	C. W. Coit	Dwelling.....	Frame	Overheated furnace ..	.....	.....	.....
22	5 36pm	42	74 Livingston st	Otto Van Til....	Otto Van Til.....	Dwelling.....	Frame	Chimney burning out...	.....	.....	.....
25	5 13pm	Still	87 Fifth st.....	Mrs. Wm Fuller...	Mrs. Hattie Provin.	Dwelling.....	Frame	Thawing out waterpipes with lamp.	60 00	1500 00	2900 00
25	10 47am	Still	Ottawa and Fountain	Peninsular Club	Peninsular Club ..	Club rooms....	Brick	Stovepipe falling down.	.....	.....	.....
25	8 27am	Still	475 Scribner st..	E. Zoelner	C. E. Johnson.....	Dwelling.....	Frame	Chimney burning out...	.....	.....	.....
26	6 37pm	2	Huron and Mill	Butterworth & Lowe	Butterworth & Lowe	Foundry.....	Stone	Wood piled on top of boiler.	.....	.....	.....
27	10 40am	363	963 Fair st.....	S. H. Young.....	S. H. Young.....	Dwelling.....	Frame	Chimney burning out...	.....	.....	.....
27	8 33pm	23	250 Lagrave st..	Edward Sowerby...	G. H. Hammond ..	Dwelling.....	Frame	Chimney burning out...	.....	.....	.....
28	8 43am	Still	300 Cherry st....	Mrs. A. K. Wheeler.	C. J. Smalley	Dwelling.....	Brick	Chimney igniting kindl- ing.	.....	10000 00	19000 00
28	8 48am	241	300 Cherry st ..	Mrs. A. K. Wheeler.	C. J. Smalley	Dwelling.....	Brick	Same fire as still at 8:43 a. m.	.....	.....	.....
Nar. 1	1 53pm	Still	345 Jefferson av.	H. B. Grady.....	J. Johnson	Dwelling.....	Frame	Chimney burning out...	.....	.....	.....
2	5 45pm	121	Rear 18 Mill st..	Vapor Stove Co.....	Vapor Stove Co.....	Japanning r'm	Brick	Breaking in'd lamp ig- niting japan.	12 00	300 00	550 00
3	6 07pm	Still	675 S. Lafayette	L. M. Fisher	L. M. Fisher	Dwelling.....	Frame	Chimney burning out...	.....	.....	.....
4	4 55am	Still	Rr 273 N. Lafay- ette st.	C. H. Mohrhard ...	Orson Stebbins...	Outhouse	Frame	Hot ashes.....	3 00	.....	2 00

REPORT OF FIRES—Continued.

Date 1940	Time	No. Box	Location	Name of Occupant	Name of Owner	Occupied as	Class of Bldg.	Cause of Fire	Loss	Insur- ance	Value
Mar. 5	9:37pm	613	10 Eighth st. . .	Mrs. Sullivan.	Edward Pyard . . .	Dwelling . . .	Frame	Chimney burning out. . .	.....	.....	.....
5	10:13pm	613	10 Eighth st. . .	Mrs. Sullivan.	Edward Pyard . . .	Dwelling . . .	Frame	Chimney burning out . .	.....	.....	.....
5	9:14am	Still	1063 Union st. . .	J. H. Hesen . . .	J. H. Hesen . . .	Dwelling . . .	Frame	Chimney burning out. . .	.....	.....	.....
8	5:27pm	Still	Rear 300 Worden . .	J. M. Hayden . . .	J. M. Hayden . . .	Smelting w'ks	Frame	Overheated chimney. . .	\$ 100 00	.....	\$ 2700 00
9	7:39am	146	56 Coldbrook st. .	John Kelley . . .	J. Manz . . .	Saloon. . .	Ironclad Frame	Not ascertained . . .	38 00	\$ 1000 00	1800 00
12	10:35am	623	113 Ninth st. . .	Chas. Darling . . .	Mrs. L. Pogodzinski	Dwelling . . .	Frame	Children and matches. .	75 00	1100 00	1300 00
14	3:27pm	Still	102 N. Ionia st. . .	T. H. Etheridge . .	John Lawrence . . .	Dwelling . . .	Brick	Chimney burning out. . .	.....	.....	.....
14	1:50pm	Still	17 Canal st. . .	L. Kinney . . .	Fifth National Bank	Auction store.	Brick	Overheated furnace . . .	2 00	13000 00	18400 00
15	2:04pm	434	512 N. Prospect . .	C. Van Delsuyse . .	C. Van Delsuyse . .	Grocery and dwelling. . .	Frame	Chimney burning out. . .	.....	.....	.....
16	1:15am	Still	161 N. College av .	John L. Shaw . . .	John L. Shaw . . .	Dwelling . . .	Brick	Defective grate. . .	75 00	10000 00	21000 00
16	6:09pm	271	212 S. Diamond . .	J. D. Lewis . . .	J. D. Lewis . . .	Dwelling . . .	Frame	Defective chimney. . .	3 00	600 00	1300 00
17	4:40pm	621	115 McReynolds . .	Chas. Michalski . .	Chas. Michalski . .	Dwelling . . .	Frame	Chimney burning out . .	.....	.....	.....
17	5:04pm	Still	115 McReynolds . .	Chas. Michalski . .	Chas. Michalski . .	Dwelling . . .	Frame	Chimney burning out. . .	.....	.....	.....
17	11:10am	Still	302 Shawmut av . .	S. Johnson . . .	S. Johnson . . .	Dwelling . . .	Frame	Chimney burning out. . .	.....	.....	.....
19	6:14pm	Still	103 S. Lafayette . .	John Haystek . . .	D. C. Scribner . . .	Dwelling . . .	Frame	Chimney burning out. . .	.....	.....	.....
20	3:45am	Still	249 S. Division . .	Mr. Pierce . . .	Freeman Morning star.	Dwelling . . .	Frame	Overheated grate. . .	496 00	3150 00	5500 00
20	3:47am	313	249 S. Division . .	Mr. Pierce . . .	Freeman Morning star.	Dwelling . . .	Frame	Same fire as still at 3:45 a. m.	.....	.....	.....
25	11:59am	312	Br 89 S. Division .	Hauser, Hayden & Owen.	G. R. Brewing Co. . .	Storage bld'g.	Brick	Sparks from chimney . .	5 00	500 00	4500 00

REPORT OF FIRES—Continued.

Date 1900	Time	No. Box	Location	Name of Occupant	Name of Owner	Occupied as	Class of Bldg.	Cause of Fire	Loss	Insur- ance	Value
Mar. 27	6 04pm	Still	518 Cass av	C. S. Comstock	C. S. Comstock	Dwelling	Frame	Chimney burning out . . . . .	.....	.....	.....
27	7 10pm	Still	E. Bridge and Ottawa	Dr. Wm. Hake	Wm. Hake	Office	Stone	Chimney burning out . . . . .	.....	.....	.....
30	6 47pm	635	240 Walker av	Jno. Upholt	Henry Werden & oth	Feed store	Frame	Not ascertained	\$ 740 00	\$ 300 00	\$ 840 00
31	4 38am	Still	261 265 N. Ottawa	Oscar Shauer & oth.	Mrs. Calvin Ives	Tenement b'k' Brick	Brick	Sup'os'd mice & match's	95 00	2400 00	9500 00
April 1	10 53pm	Still	Fountain and N. Division	City	City	Electric light pole.	Wood-pole	Electric wire crossed . . . . .	.....	.....	.....
2	3 22pm	Still	123 Canal st.	W. M. Duffney & oth	Mrs. D. Naysmith	Picture store	Brick	Chimney burning out . . . . .	.....	.....	.....
3	6 30am	434	478 E. Bridge st.	N. A. Cushing	N. A. Cushing	Dwelling	Frame	Not ascertained	15 00	400 00	700 00
5	6 55pm	27	41 S. Diamond st.	Jerry Wagner	Jerry Wagner	Dwelling	Frame	Caricass b'nd'g matches	75 00	1975 00	1800 00
7	10 30pm	2	20 Canal st	Giant Clothing Co and others.	Geo. Edison & oth	Store	Brick	Not ascertained	38 00	6300 00	7500 00
7	1 40am	Still	S Division st.	Chas. Dickerman	Chas. Dickerman	Hotel	Frame	Not ascertained — out- side city	Total	Loss.	.....
9	6 30pm	53	80 Stocking st.	E. B. Cooper	P. Swantek	Dwelling	Brick	Defective flue	75 00	500 00	2400 00
9	12 01pm	351	Rumsey, bet. Hill ton & Grdville	Henry Joseph Rich ter	Henry Jos. Richter	St. Joseph's church	Brick	Spark from chimney	20 00	2500 00	7000 00
10	11 45am	Still	119 Stocking st.	Mrs. M. Norcutt	Mrs. M. Norcutt	Dwelling	Frame	Chimney burning out . . . . .	.....	.....	.....
10	12 32pm	Still	College, bet. Cherry & Wilthy . . . . .	.....	.....	.....	Grass	Grass ignited—boundre . . . . .	.....	.....	.....
11	3 02am	Still	E. Fulton and Barclay . . . . .	.....	.....	.....	.....	No cause for alarm . . . . .	.....	.....	.....
11	2 36pm	532	205 Bowers st.	A. Vander Meulen	Joseph Schursch	Dwelling	Frame	Chimney burning out . . . . .	.....	.....	.....
11	6 20pm	Still	78 Clancy st	Geo. Coppens	M. J. H. Mfg. Co	Dwelling	Frame	Chimney burning out . . . . .	.....	.....	.....
13	4 38pm	Still	709 S. Lafayette	T. E. Malone	T. E. Malone	Dwelling	Frame	Dog ups't'g clo. on stove	30 00	1400 00	2000 00

REPORT OF FIRES - Continued.

Date 1900	Time	No Box	Location	Name of Occupant	Name of Owner	Occupied as	Class of Bldg.	Cause of Fire	Loss	Insurance	Value
April 13	7 07pm	Still	675 N Front st..	C. Reed	P. J. Boppens	Dwelling ..	Frame	Chimney burning out...	.....	\$ 800 00	\$ 1700 00
14	6 58pm	26 & 283	423 Wealthy av.	Julia Meernels	Mrs E. W. Johnston	Dwelling	Frame	Not ascertained	\$ 75 00	4000 00	8000 00
14	7 10am	451	88 Houseman st	Geo Harting	J. Snotmaker	Dwelling	Frame	Burning of guard front of fireplace.	5 00	900 00	1800 00
16	12 30am	Still	33 S. Lafayette.	Wm. Sears	Wm. Sears	Dwelling	Frame	Telephone and electric wires crossed.	.....	4500 00	8000 00
19	3 18am	Still	400 Jefferson av.	G. W. Zobble	Wm. Fitzgerald	Barn	Frame	Not ascertained	327 00	350 00	600 00
19	3 20am	234	400 Jefferson av.	G. W. Zobble	Wm. Fitzgerald	Barn	Frame	Not ascertained	327 00	350 00	600 00
20	5 47pm	313	97 McConnell st.	Ed. Draentee and Mrs. Dunn.	Jas. Tanner.	Dwelling ..	Frame	Hot stovepipe and partition Alarm-auxiliary	65 00	200 00	600 00
21	1 37pm	363	.....	.....	.....	.....	.....	.....	.....	.....	.....
25	12 54pm	Still	66 Indiana st ..	Mrs. Schinbhorn	Max Braudy	Dwelling	Frame	Chimney burning out...	.....	.....	.....
28	7 50pm	Still	380 Jefferson av.	M. Van Heu'en.	W. S. Howard	Sidewalk ..	Boards	Spilling gasoline on side walk.
30	6 45pm	614	597 N. Front st..	O. Hamilton	J. A. Steakman	Rub-bis

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